

**SERVICE
MANUAL** **SD5010**

marantz.®

model SD5010

Stereo Cassette Deck

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

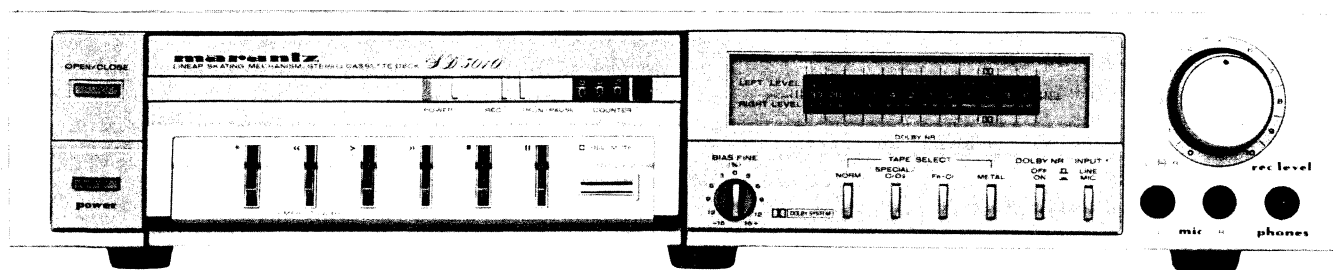
U.S.A.	CANADA	AUSTRALIA	JAPAN
Marantz Company, Inc. National Service Dept. P.O. Box 577 Chatsworth, CA 91311 U.S.A.	Superscope Canada, Ltd. 3710 Nashua Drive Mississauga Ontario, Canada L4V1M5	Marantz Australia 32 Cross Street Brookvale, NSW 2100 Australia	Marantz Japan, Inc. 3622 Kamitsuruma Sagamihara-shi Kanagawa, Japan
EUROPE			
Marantz Europe S.A. 326 Avenue Louise Bte 32 1050 Brussels Belgium	Marantz France 4 rue Bernard Palissy 92600 Asnieres France	Marantz Audio U.K., Ltd. 193 London Road Staines, Middlesex United Kingdom	Marantz Germany GMBH Max-Planck-Strasse 22 6072 Dreieich West Germany
Marantz Belgium 45 rue Auguste Van Zande 1080 Brussels Belgium	Marantz Svenska A.B. Franzengatan 6 10425 Stockholm Sweden	Marantz Norske A.S. Refstadalleen 13 Oslo 5 Norway	

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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MARANTZ MODEL SD5010 CASSETTE DECK



INTRODUCTION

This service manual are prepared for use by Authorized Warranty Station and contains service information for Marantz Stereo Cassette Deck.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the Cassette Deck.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can be usually obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of your Cassette Deck consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Pre Amp mounted on P.W. Board PJ01
2. Power Supply mounted on P.W. Board P801
3. Rec. Level Cont. mounted on P.W. Board PE01
4. Switch. mounted on P.W. Board PE02
5. Bias Fine Cont. mounted on P.W. Board PS01
6. AC Power
(U&C only) mounted on P.W. Board P802
7. Dolby mounted on P.W. Board P601
8. Mecha Cont. mounted on P.W. Board PT01
9. Mecha LED mounted on P.W. Board PT02
10. Solenoid mounted on P.W. Board PT03
11. Leaf Switch mounted on P.W. Board PT04
12. Rec. Muting
Switch mounted on P.W. Board PT05
13. Close End Switch mounted on P.W. Board P803
14. Open End Switch mounted on P.W. Board P804
15. LED Meter. mounted on P.W. Board PX01

2. TEST EQUIPMENT REQUIRED FOR SERVICING

For measuring or checking your Cassette Deck, the following instruments and materials are necessary.

- VTVM
- Audio Oscillator (AF OSC)
- Attenuator (600 Ω)
- Oscilloscope
- Bandpass Filter (1 kHz)
- IEC A-Curve Filter
- Wow and Flutter Meter
- Torque Meter (Cassette Type)
- Digital Frequency Counter
- Distortion Meter
- Blank Tapes (Completely erased with bulk eraser)
 TDK AC-212 (Normal)
 TDK AC-512 (Special/CrO₂)
 SONY CS-30 (Fe-Cr)
 TDK AC-711 (Metal)

NOTE: If any doubt is noted in a measured value, use new tape.

- Test Tapes (New Tape)
 - MTT-111 Wow and Flutter, Tape Speed
 - MTT-112 Measurements of Output Level
 - MTT-112B Signal-to-Noise Ratio
 - MTT-150 Adjustment of Output Level
 - MTT-216 Frequency Response (for Normal)
 - MTT-316 Frequency Response (for Special/CrO₂, Fe-Cr and Metal)
 - MTT-121 Cross Talk
 - MTT-141 Channel Separation
 - MTT-111 Wow and Flutter, Tape Speed

3. MECHANISM AND CIRCUIT DESCRIPTIONS

3.1 DEFINITION OF THE SOFT TOUCH PUSHBUTTON

The conventional tape mechanism widely in use in general is such that uses the finger force to depress the push-buttons in various modes for operation of the component parts of the mechanism, whereas the soft touch type mechanism, though likewise uses the downward pressure of the finger, depends on the rotational force of the flywheel as the main motive power source, instead of the finger pressure which is merely for the start of the mechanical operation. Thus, the soft touch type mechanism provides a sense of such light operation as 200 to 400 g pressure on the buttons and 3 mm stroke.

3.2 TO SWITCH RECORDING AND PLAYBACK MODES

In the playback and recording modes, the switching is implemented by the generated DC "High" signal.

In the playback mode

The playback mode is maintained so long as no indication for recording is given. More specifically, due to the R/P switching circuits QS01 and QS02, the collector side of QS03 turns "High" and each switching element connected to the paths is turned on.

- When QJ07 and QJ08 are "ON":
The playback equalizer amplifier output is connected to the Dolby amplifier.
- When QE01 and QE02 are "ON":
The mic amplifier output is muted.
- When Q603 and Q604 are "ON":
The Dolby playback output is connected to the line output, the meter, and headphone amplifier.
- When QL01 and QL02 are "ON":
The recording amplifier is muted.

In the Recording mode

Under the mechanism's indication for recording (ST01 is "ON"), the bias oscillating circuit is turned on and at the same time the emitter side of QS04 turns "High" due to the R/P switching circuits QS01 and QS02. Consequently, each switching element connected to the paths is turned on.

- When LT01 is "ON":
The recording-playback switching relay comes into operation and the R/P head earth ground is switched.
- When QE03 and QE04 are "ON":
The mic amplifier output is connected to the Dolby amplifier.
- When Q605 and Q606 are "ON":
The Dolby recording monitor output is connected to the line output and its subsequent stages.

3.3 PLAYBACK EQUALIZER CIRCUIT

The playback equalizer amplifier is fixed at 3180 μ sec and 120 μ sec with NF elements. In the 70 μ sec, the CR elements are switched by means of the electronic switching QJ05 and QJ06.

3.4 RECORDING COMPENSATION

In the recording mode, the "High" signal is divided into

tape-by-tape signal, using one of the two tape selector switch (SJ03~SJ06) circuits. The switching of the respective elements for the recording sensitivity compensation, mid-range compensation, and high-range compensation is implemented by applying the divided signal into the transistor alley QL05 and QL06 (QL41 and QL42 for the high-speed in two speed selection).

3.5 BIAS CURRENT

The switching of the tape-by-tape bias current is accomplished by changing the recording bias oscillating circuit input voltage which is composed of QS10, QS11, and QS12, using the remaining of the tape selector switch (SJ03~SJ06) circuits. This circuit also plays the role to keep the steady fine variations in the bias.

3.6 SWITCHING THE DOLBY NR AND MPX FILTER

The "ON/OFF" operation of the Dolby NR and the MPX filter is performed by the "High" signal produced in one circuit for the switch SJ02.

a. When the Dolby NR and MPX filter are in "ON" status

The "ON" side of SJ02 turns "High," the Q615/616-MPX filter switching element turns on, and the MPX filter is operated by the coils L601 and 602. Also, the Dolby NR turns on because Dolby NR release voltage is not applied to the pin (14) of the Dolby IC Q601/602.

b. When the Dolby NR and MPX filter are in "OFF" status

The "OFF" side of SJ02 turns "High," the Dolby NR release voltage is applied to the pin (14) of the Dolby IC Q601/602, and the Dolby NR turns off. Also, the pins (9) and (10) of the MPX filter coil act as an 20 kHz low pass filter because the pins are floated above the earth ground.

3.7 MUTING CIRCUITS

The muting circuit consists of the following two paths.

a. Muting when the power supply and the timer are in "ON" status

In order to achieve the muting in the amplifier's rise and the LED meter swing when the power supply and the timer are in "ON" status, a 4 sec time constant circuit (Q803/Q804) is provided at the rise of the DC 12V power supply (for the motor and the LED lighting). Therefore, the mechanisms do not work for four seconds after the power supply has turned on.

b. Muting in PLAY and REC modes

The respective muting transistors are arranged on the playback path (Q611/Q612) and the recording path (QL01/QL02), and the muting is achieved for the speed rise time of 0.7 sec after the PLAY or REC mode has been established, using the playback and recording "High" time constant circuit connected to the "High" output transistor QT11 for the release of those elements from being muted. Also incorporated are the countermeasures for pop noise during the switching from REC mode to STOP mode, composed of QT12/QT13.

3.8 POWER SWITCH-OFF AND SHUTOFF

Due to the motor driven mechanism (mechanical soft mechanism) in use, the running tape gets irremovable when the power supply has turned off during the tape run. To prevent this situation, the power switch-off/auto shutoff circuits is incorporated. The operating principle for the circuit is as follows:

1. Further insertion of the reverse-current preventive diode Q813 in the DC 20V rectifying circuit creates the "High" signal very quick of attaining the decay when the power supply is in "OFF" status.
2. This "High" signal is applied to the auto shutoff preventive switching element QT04.
3. The auto shutoff solenoid LT01, connected to the DC 12V power supply path, is slow in attaining the decay when the power supply is in "OFF" status, due to the rectifying large-capacity chemical capacitor C805/Q808 (1000 μ F + 1000 μ F) involved prior to the stability of the power supply.
4. Immediately after the power supply has moved into "OFF" status, QT04 turns off and QT05 turns on. Therefore, the electric charges on C805/C808 start flowing into the shutoff solenoid LT01, thus causing the power switch-off/shutoff function to work.

3.9 AUTO SHUTOFF

Rotary detection is conducted by the ring magnet (six poles) and the hole IC (QT12). During the regular tape run, the hole IC output repeats its high and low alternating process, and the QT03 base is fixed at "Low" by QT01. Therefore, a combination of QT03 collector and QT04 base is made steady by the shutoff preventive "High" signal, thus preventing the shutoff.

When the running tape has come to standstill, the hole IC (QT12) output is fixed either at "High" or at "Low" and the QT01 collector turns "High." Then, QT03 turns on and the combination of QT03 collector and QT04 base turns "Low," followed by the turn-on of QT05, thus bringing the shutoff into operation. Then, QT07/QT08 starts stopping the shutoff in REC/PAUSE or PLAY mode.

3.10 TAPE RUN

The hole IC (QT12) output makes the "ON/OFF" operation of the transistor QT09 to light the LED for tape run, giving the tape run indications according to the tape runs. This LED is in common use for "PAUSE" indication and the lighting for the REC/PAUSE or PLAY mode is also provided, using QT10/QT08.

3.11 DOOR MOTOR CIRCUIT

No logic circuit is used for the door motor to be switched from "OPEN" to "CLOSE" and vice versa, and such switching is conducted by means of the door switch (S805 4-2), open-end switch (S804 1-1), and closed-end switch (S805 1-2).

- a. **Door opening (with the S802 door switch pushed off)**
The "earth ground" side of the open-end switch (S804 microswitch) turns on. The power supply moves into "OFF" status when the mechanism has been drawn forward to the extremity (where the microswitch actuator goes off from the aluminum guide).

- b. **Door closing (with the S802 door switch pushed on)**

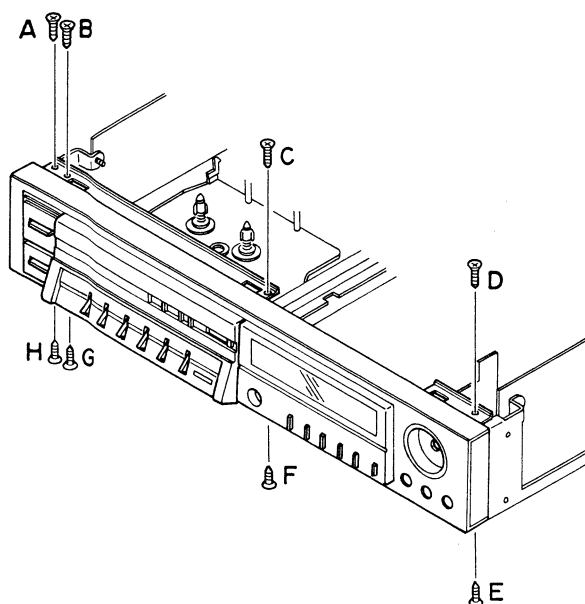
The "positive" side of the closed-end switch (S805 leaf switch) turns on. The power supply moves into "OFF" status when the mechanism has been fully put in (or when the switching has been done by the leaf switch). At this time, for prevention of the motor's overrunning, the both ends of the motor get short-circuited at the time of the switching conducted by the leaf switch, thus causing the brake to work.

Also, by bending the tip of the operating hardware for the S805 leaf switch, the switch's operating timing is adjusted so that the front end (or open-end) of the mechanism can be flush with the front end of the unit's body when the mechanism has been put in.

4. DISASSEMBLY

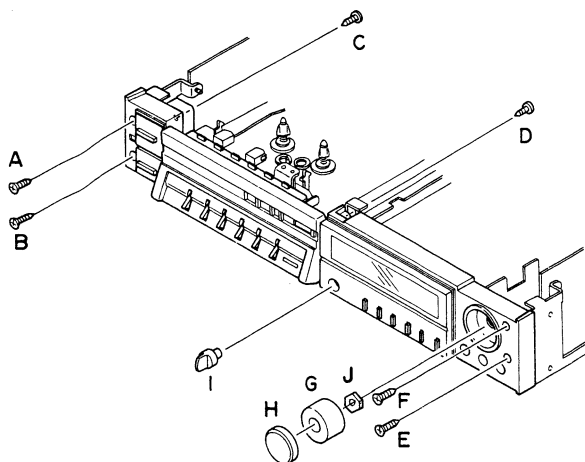
4.1 REMOVING THE MAIN PANEL

Remove the eight screws A, B, C, D, E, F, G and H holding the escutcheon.



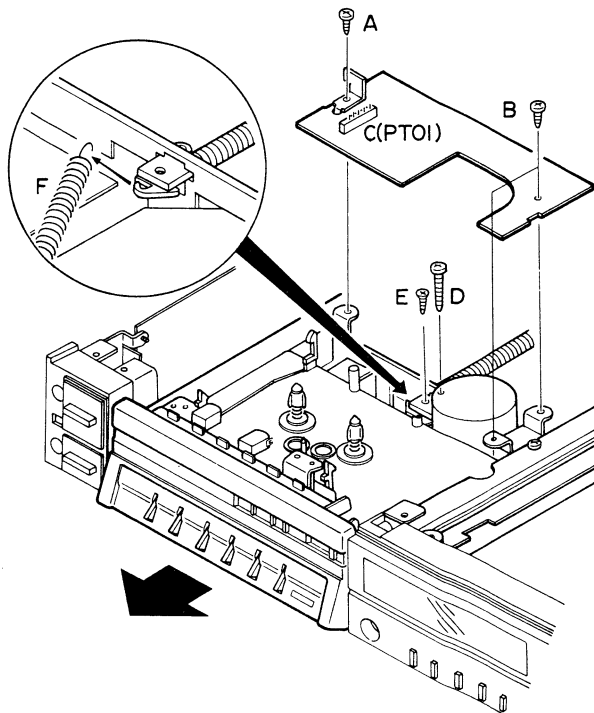
4.2 REMOVING THE LEFT AND RIGHT PANELS

1. Remove the three screws A, B and C, and remove the left panel from the main chassis.
2. Remove the three screws D, E and F.
3. Pull out the three knobs G, H, I and nut J, and remove the right panel from the main chassis.



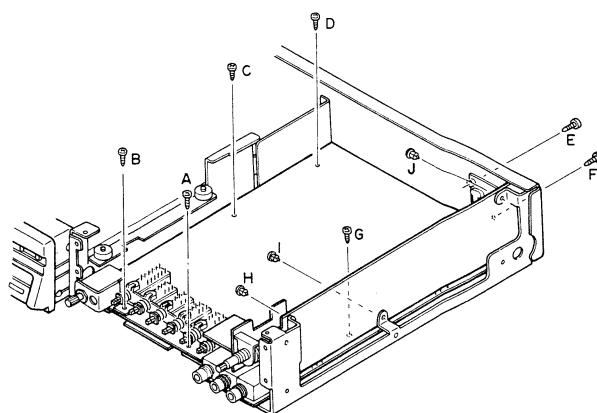
4.3 REMOVING THE MECHANISM

1. Remove the two screws A and B, and remove the P.W. Board (PT01) from mechanism chassis.
2. Remove the two screws D and E, and detach the spring F as shown in Figure.
3. Pull out the mechanism in the arrow direction.



4.4 REMOVING THE PRE-AMP CIRCUIT BOARD (PJ01)

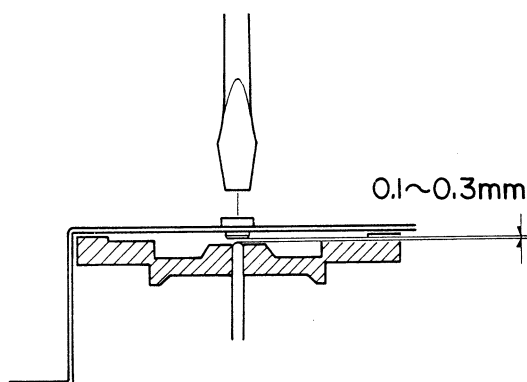
1. Remove the seven screws A, B, C, D, E, F and G.
2. Remove the three clampers H, I and J.



5. MECHANICAL ADJUSTMENTS

5.1 ADJUSTING THE FLYWHEEL THRUST

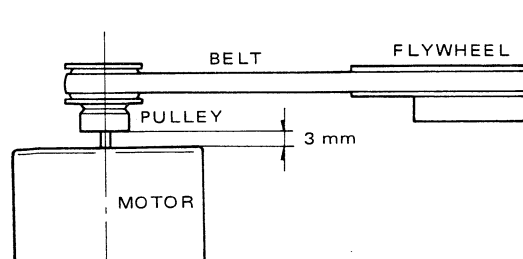
Adjust the thrust screw at the flywheel bracket until the clearance between the capstan tail end and the thrust bearing is 0.1 to 0.3 mm, using a philips screw driver. For adjusting, feel for axial dropping of the flywheel for proper clearance as this cannot be seen through. Then paint the screw to lock.



5.2 ADJUSTING THE MOTOR PULLEY

After putting the pulley on the motor shaft, attach the belt from the pulley to the flywheel. With the flywheel turning 2 or 3 times, properly position the pulley so that the belt is put the center on of the flywheel. Make sure the distance between the pulley and the motor is approx. 3 mm.

The belt for driving the take-up idler will be in parallel because the motor pulley (162N) is automatically set to proper position.

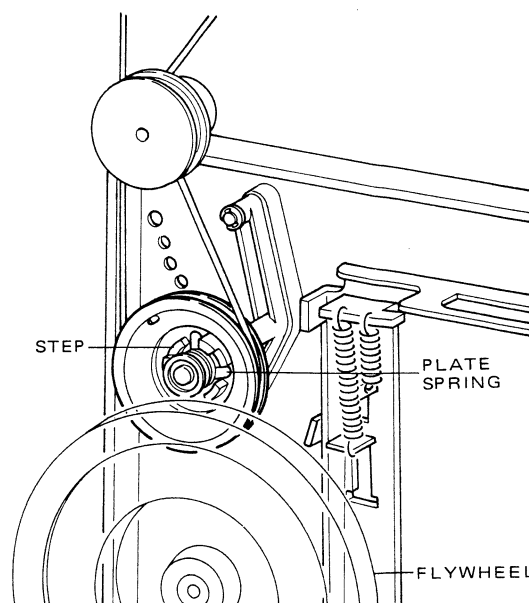


5.3 ADJUSTING THE PLAY TAKE-UP TORQUE

Set the plate spring in proper one of the three steps as shown.

The adjustable torque range is 40 to 70g·cm.

For the torque adjustment, use the torque cassette CT-120M.



5.4 MEASURING THE FF/REW TORQUE

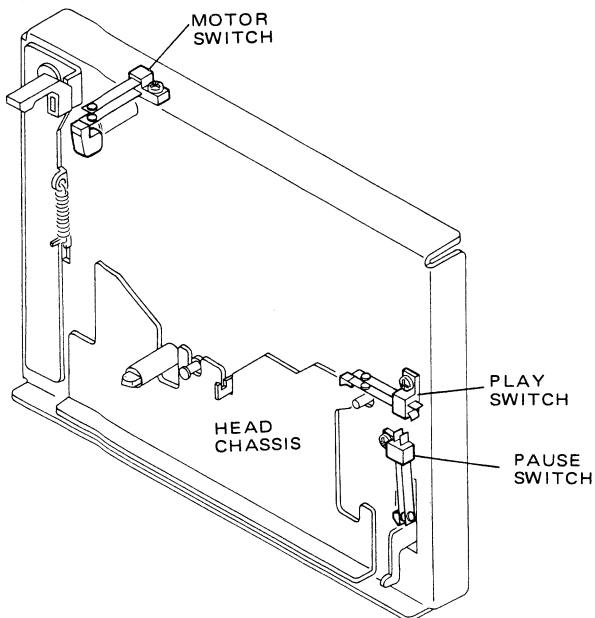
The FF and REW torques are not adjustable. If the FF and REW functions are inadequate, renew the netire assembly (006N).

The adjustable torque range is 65 to 140 g·cm.

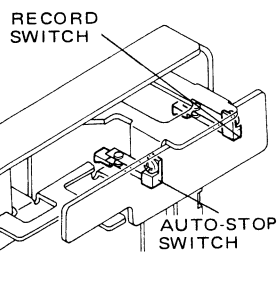
When the motor rotation is reduced by its over load because the FF and REW torques are high, the lock cam is automatically released by the solenoid coil without affecting the auto-stop function.

SWITCH LOCATION

FRONT

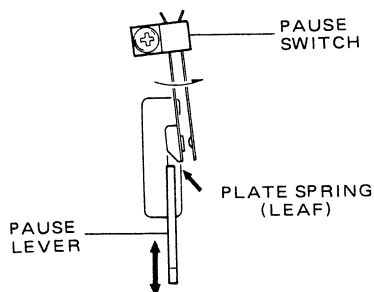


REAR



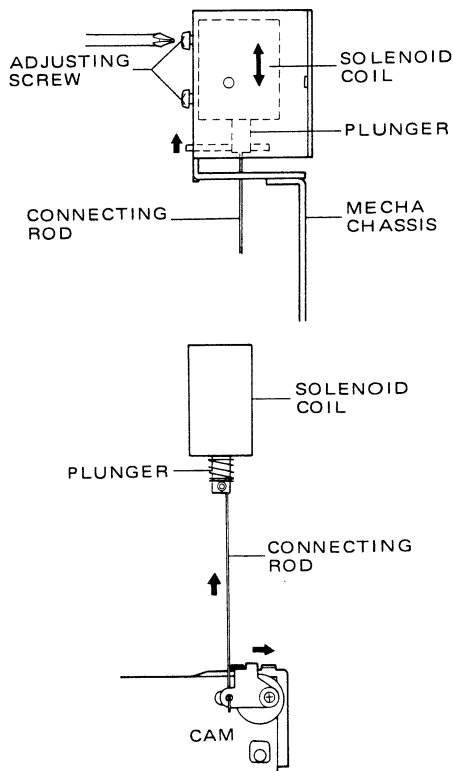
5.5 POSITIONING THE PAUSE SWITCH

After attaching the PAUSE switch, turn it fully to the counterclockwise, and tighten the adjusting screw. Make sure the PAUSE switch end is located at the right side of the pause lever as shown. If it is not located at the proper position, bend the plate spring (leaf) to the right side.



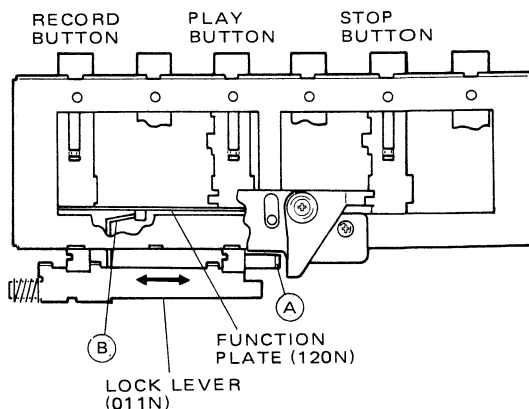
5.6 ADJUSTING THE SOLENOID COIL FOR AUTO-STOP

In the PLAY, FF, REW, or REC mode of operation, with the solenoid plunger pulling fully, make sure the cam is released properly. If it is not released, adjust the position attaching the solenoid coil.



5.7 ADJUSTING THE TIMER STAND-BY MECHANISM

The TIMER STAND-BY mechanism will activate by depressing the REC or PLAY button. The mechanism is located at the lower side of the button block. To release the stand-by mode, depress the STOP button. If the stand-by mode is not released, bend the (A) portion of lock lever (011N) as shown. When the mechanism is set into the timer mode, the locked button is released by operation of the function plate (120N). If it is not released, bend the (B) portion of the lock lever as shown.



6. ELECTRICAL ADJUSTMENTS

Precautions before Adjustment

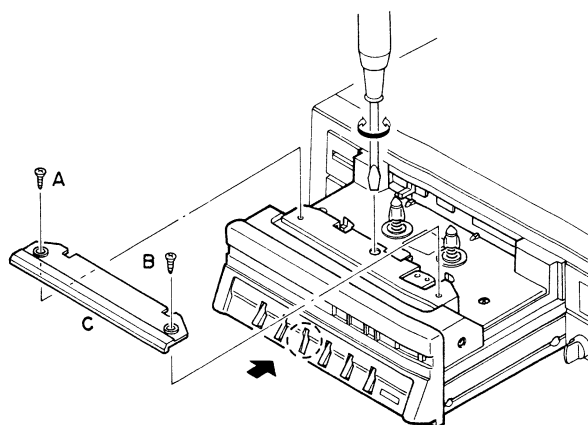
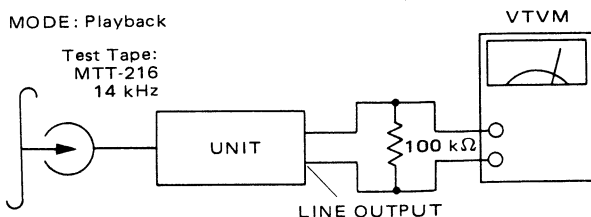
1. Before playing the test tape back, thoroughly demagnetize the heads, capstan and similar metal parts using an eraser as the test tape-recorded tone is easily erased.
2. Do not place the test tape on any measuring instrument.
3. Do not put the test tape near a place where the eraser is used.
4. Method of Demagnetization: — Turn the eraser power switch on at a remote position far away from the heads. Bring the eraser close to the heads, capstan and other parts to be demagnetized, and move it up and down four or five times to demagnetize. Slowly separate the eraser far away from the parts, and turn the power switch off.
5. Do not use any magnetized adjusting tool. When using it, demagnetize it from time to time in the course of each adjustment.
6. Do not turn semi-fixed resistor more than needed.
7. Do not apply locking bond excessively.

Definitions

1. The "normal playback state" is an operating state of the tape deck which plays back the MTT-150 test tape and is adjusted so as to produce a 580mV output at the LINE OUTPUT terminal with the load assuming the measuring instrument input impedance of greater than 100 k Ω and with the TAPE SELECTOR switch set at the NORMAL position.
 2. The "normal recording state" is an operating state of the tape deck which records a 1 kHz signal to a specified recording level for which the recording level control is adjusted with the 1 kHz signal applied at a specified input level to the MIC terminal.
- In the normal recording state, therefore, this tape deck is set up with the level control to the state that the Peak Level Displays may illuminate to the 0 VU with a 1 kHz, 1 mV input signal applied.

6.1 HEAD AZIMUTH ADJUSTMENT

1. Remove the two screws A and B, and remove the head cover C.
2. Push the NORM button of the TAPE SELECT buttons.
3. Play the 14 kHz signal of the test tape MTT-216 back. Adjust the head azimuth adjusting screw for maximum VTVM read.
4. If the peak output reads of the right and left channels are different, set the screws to obtain the mechanical center between the peaks.
5. After adjustment, repeat the playback and stop setting a few times to make certain of no head azimuth deviation. Then, lock the screws with bond.

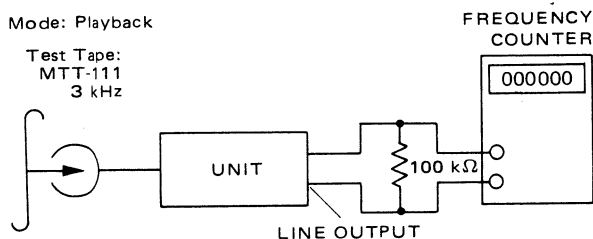


6.2 TAPE SPEED ADJUSTMENT

Play the 3 kHz signal of the test tape MTT-111 back. Adjust the tape speed adjusting resistor inside the motor (M001) for 2990 to 3010 Hz counter indication.

NOTES:

1. If a strong shock or similar vibration is applied to the deck after adjustment, make certain that the measured tape speed had not changed.
2. Be careful that the frequency counter may indicate a wrong value because of too low counter input level.
3. Before adjustment, allow for 30 seconds or more after depressing of the PLAY button.

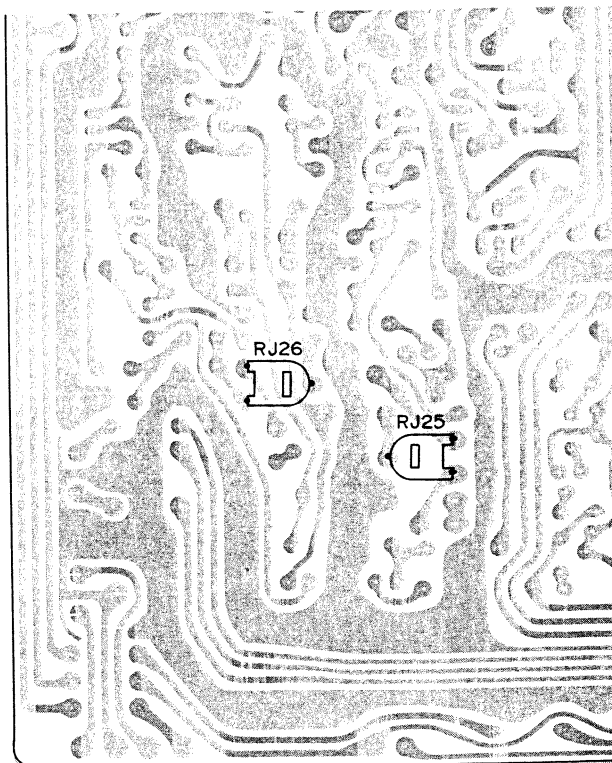
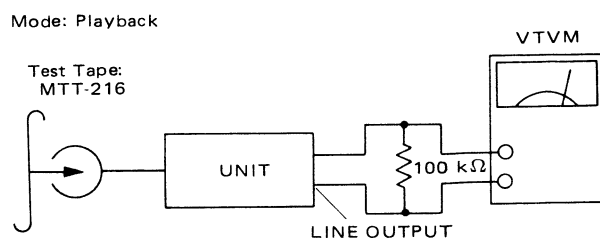


6.3 PLAYBACK EQUALIZER ADJUSTMENT

1. Push the NORM button of the TAPE SELECT buttons.
2. Play the 315 Hz signal of the test tape MTT-216 back. Let the 315 Hz signal level be reference as 0 dB.
3. Play the 12.5 kHz signal of the test tape MTT-216 back. Adjust RJ25(L) and RJ26(R) ($5\text{ k}\Omega$ each) for 12.5 kHz frequency response of 0 to -1 dB in reference to the 315 Hz signal level.

NOTES:

1. Proceed both for the right and left channels in the same manner.
2. Note that clockwise turning of RJ25(L) and RJ26(R) will increase the 14 kHz signal output level.



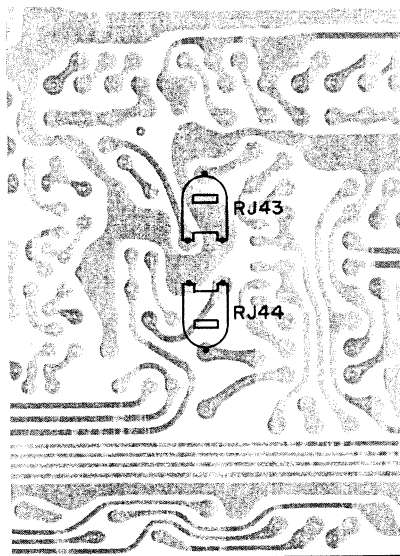
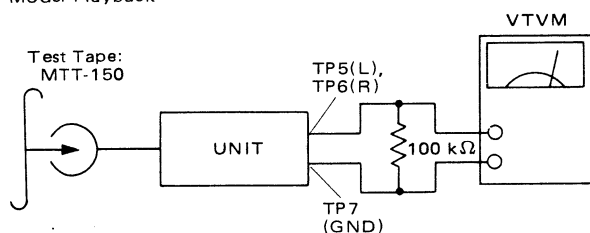
6.4 PLAYBACK OUTPUT LEVEL ADJUSTMENT

1. Push the NORM button of the TAPE SELECT buttons.
2. Play the test tape MTT-150 back. Adjust RJ43(L) and RJ44(R) (50 k Ω each) for 580 mV playback output level at the test points TP5(L) and TP6(R), or TP6(R) and TP7(GND).

NOTES:

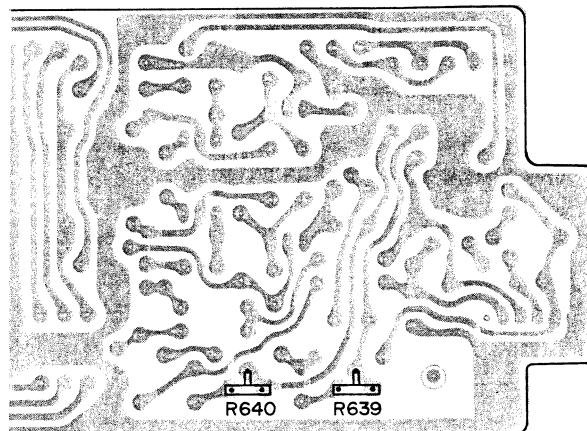
1. Proceed both for the right and left channels in the same manner.
2. This adjustment should be performed after the one for the "Playback Equalizer Adjustment".

Mode: Playback



6.5 LED PEAK LEVEL METER ADJUSTMENT

1. Follow the same procedures as in the "Playback Output Level Adjustment" section.
2. Adjust R639(L) and R640(R) (5 k Ω each) for DD (+2 dB) LED meter reading.

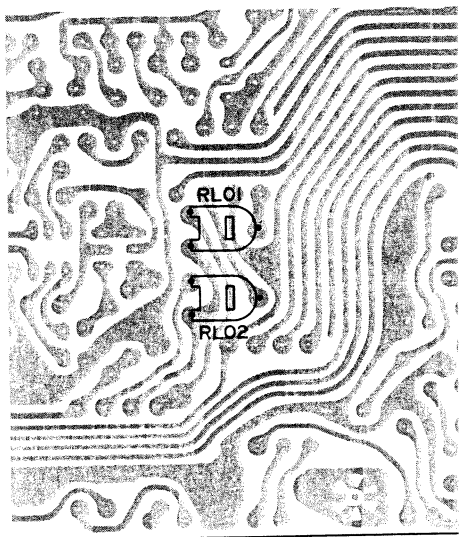


6.6 RECORD-PLAYBACK LEVEL ADJUSTMENT

1. Push the NORM button of the TAPE SELECT buttons.
2. Connect the 1 kHz, -60 dBV signal to the MIC jack. Set up the deck to the recording state.
3. Adjust the REC LEVEL control for 0 dB LED meter reading.
4. Play the recorded portion back and adjust RL01(L) and RL02(R) for 0 dB LED meter reading.

NOTE:

Proceed both for the right and left channels in the same manner.



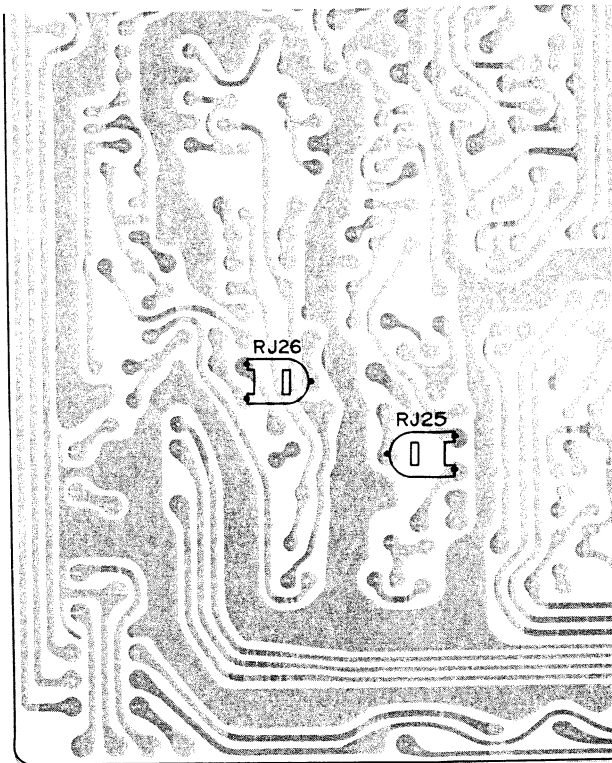
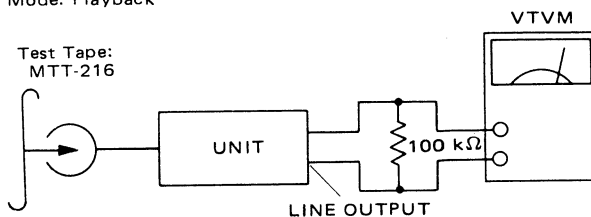
6.7 PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

1. Push the NORM button of the TAPE SELECT buttons.
2. Play the 31.5 Hz to 14 kHz signals of the test tape MTT-216 back.
3. Adjust RJ25(L) and RJ26(R) so that the 12.5 kHz response is within 0 to -1 dB as reference to the 31.5 Hz, 0 dB response.
4. Depress the SPECIAL/CrO₂ button of the TAPE SELECT buttons.
5. Play the test tape MTT-316 back. Then, make sure that the 31.5 Hz and 12.5 kHz signals are within 0 to -1 dB.

NOTE:

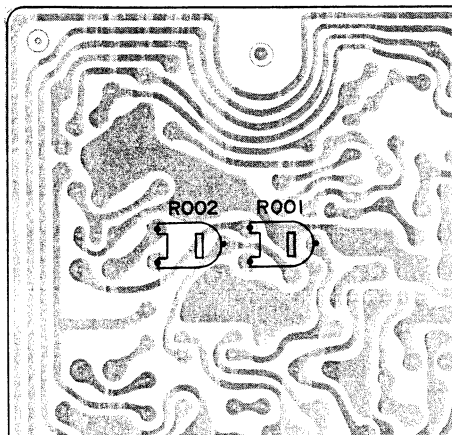
This adjustment should be performed after the one for the "Head Azimuth Adjustment".

Mode: Playback



6.8 RECORDING BIAS CURRENT ADJUSTMENT

1. Push the NORM button of the TAPE SELECT buttons.
2. Set up the deck to the recording state.
3. Adjust R001 (L) and R002(R) for 3.8 mV reading (bias currents are $380 \mu\text{A}$) at the test points TP1(L) and TP3(GND), or TP2(R) and TP3(GND).
4. Make sure that the following values are obtained by depressing the SPECIAL/CrO₂, FeCr, and METAL buttons.
SPECIAL/CrO₂: 4.8 mV, FeCr: 3.8 mV, METAL: 7.4 mV

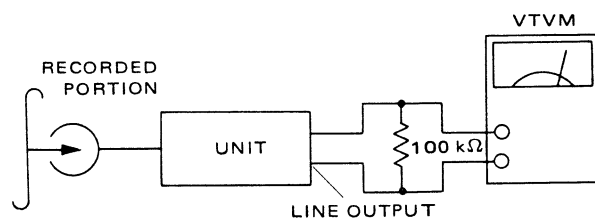
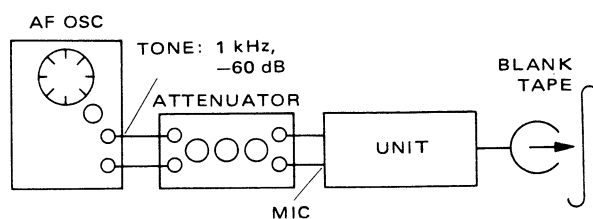


6.9 RECORD-PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

1. Push the NORM button of the TAPE SELECT buttons.
2. Connect the input signal to the MIC terminal. Set up the tape deck to the normal recording state.
3. In turn, reduce the input level by 23 dB with the use of the attenuator. Record the 1 kHz and 12.5 kHz tones.
4. Play the 1 kHz, 23 dB-down recorded tone back as 0 dB. Adjust the recording bias current until the 12.5 kHz response is within ± 1 dB as reference to the 1 kHz, 0 dB response.

NOTES: 1. Proceed both for the right and left channels in the same manner.
2. If the recording bias current is reduced in the above adjustment, be sure to measure the distortion.

Mode: Record

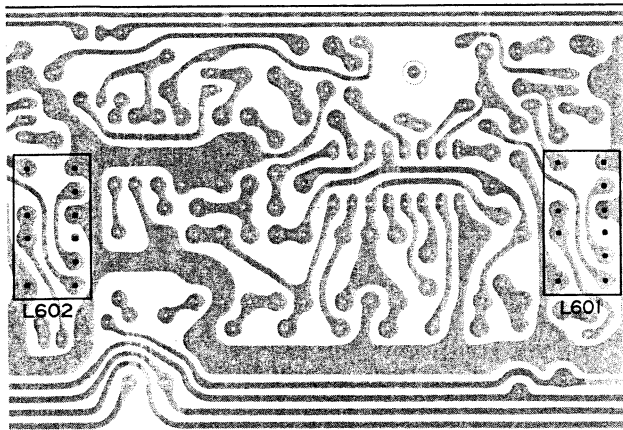


6.10 BIAS TRAP ADJUSTMENT

1. Push the METAL button of the TAPE SELECT buttons.
2. Adjust L601(L) and L602(R) for minimum leak bias at the LINE OUTPUT jacks.

NOTES:

1. If the leak bias less than the specified value, the bias trap needs not to be adjusted.
2. The adjusting screwdriver should be non-metallic.



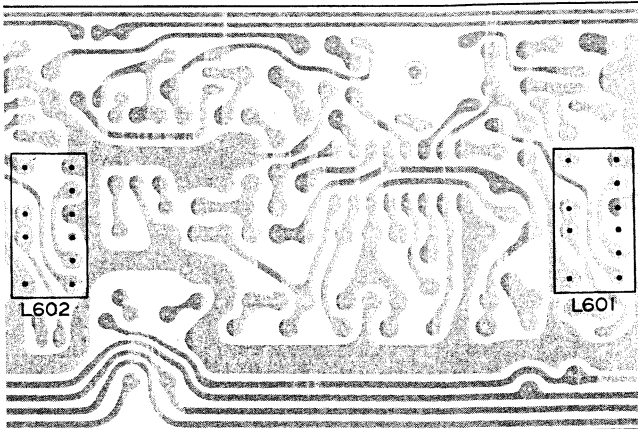
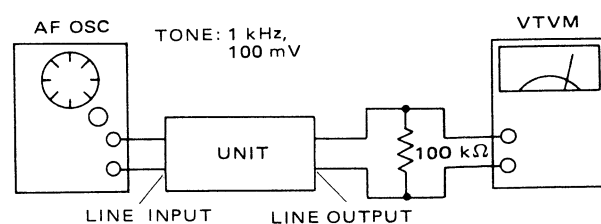
6.11 MPX FILTER ADJUSTMENT

1. Push the NORM button of the TAPE SELECT buttons.
2. Connect the 1 kHz, 100 mV input signal to the LINE INPUT jack.
3. Set up the deck to the recording state.
4. Adjust the REC LEVEL control for 0 dB meter reading.
5. Adjust the line output level for 0 dB, and turn the DOLBY NR switch to the ON position.
6. Turn the input signal to the 19 kHz.
7. Adjust L601(L) and L602(R) for minimum output level.

NOTES:

1. Proceed both for the right and left channels in the same manner.
2. If the filter characteristic is better than 30 dB, the MPX filter needs not to be adjusted.

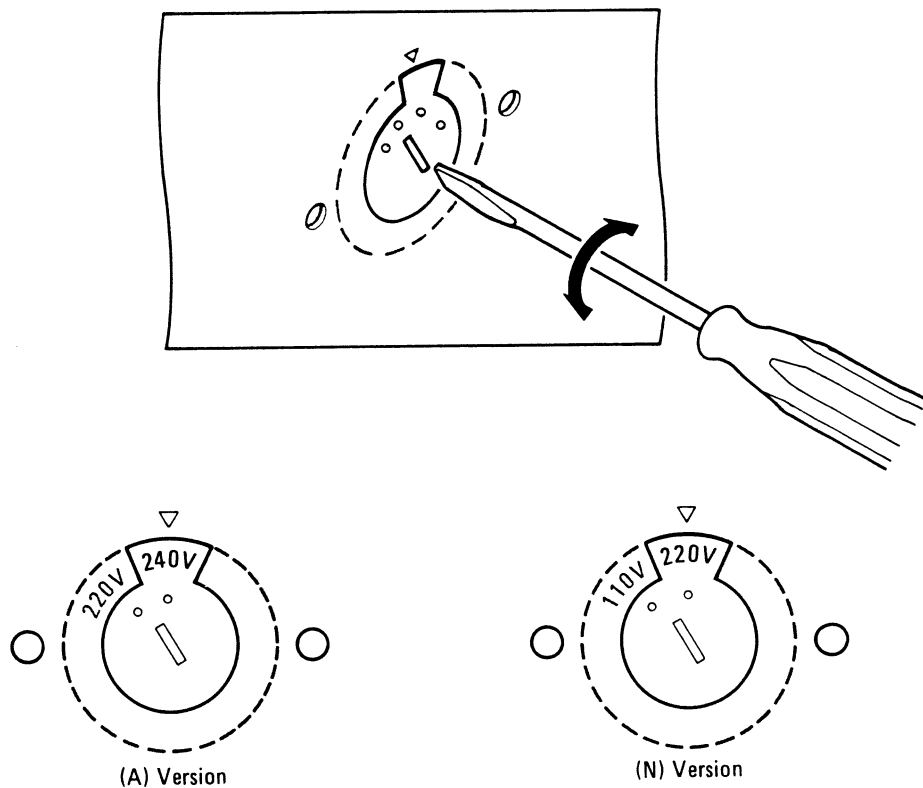
Mode: Record



7. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.

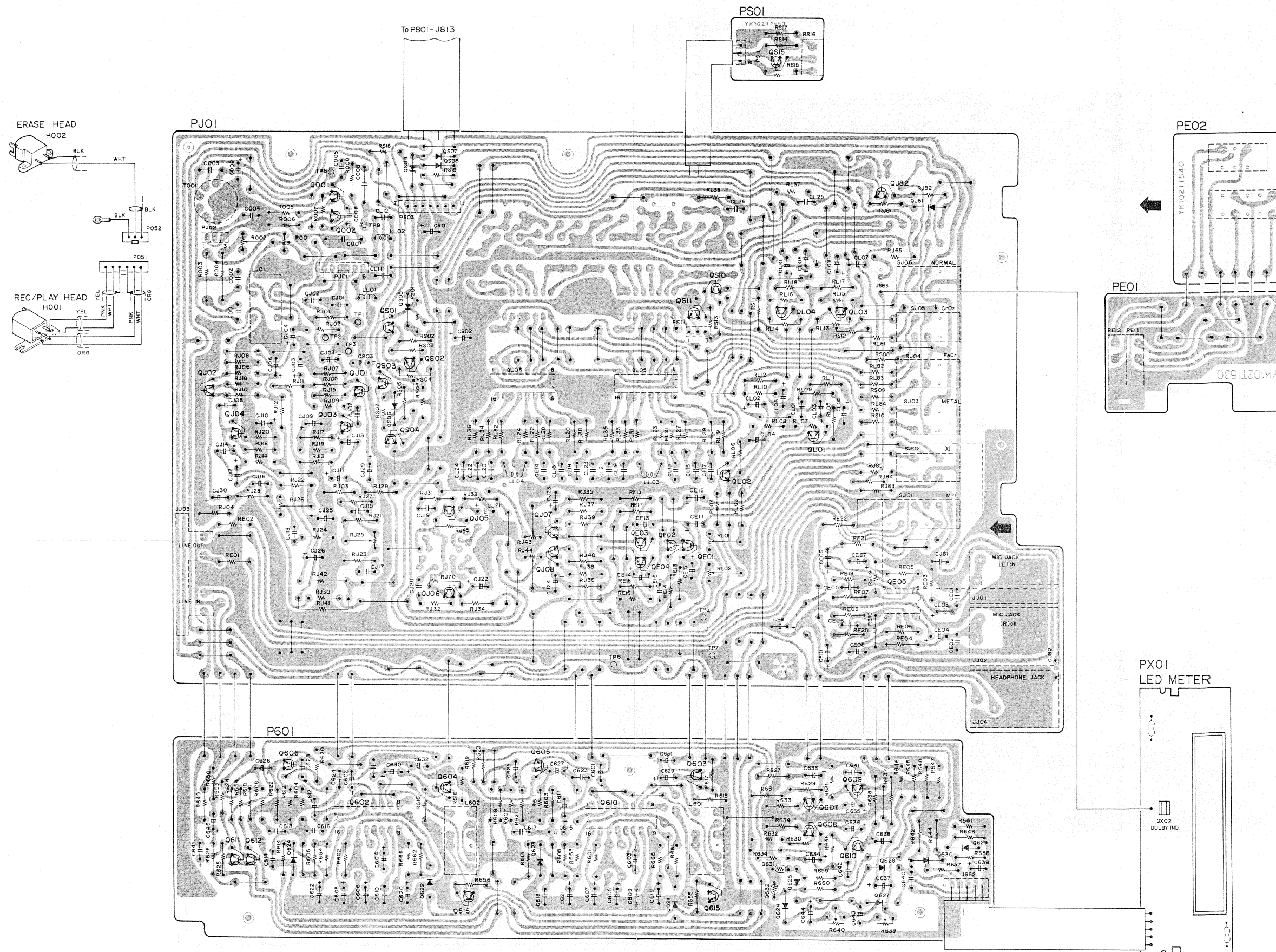


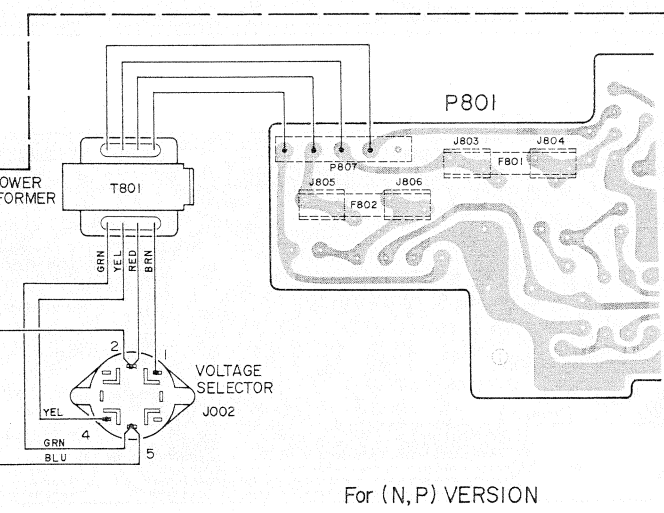
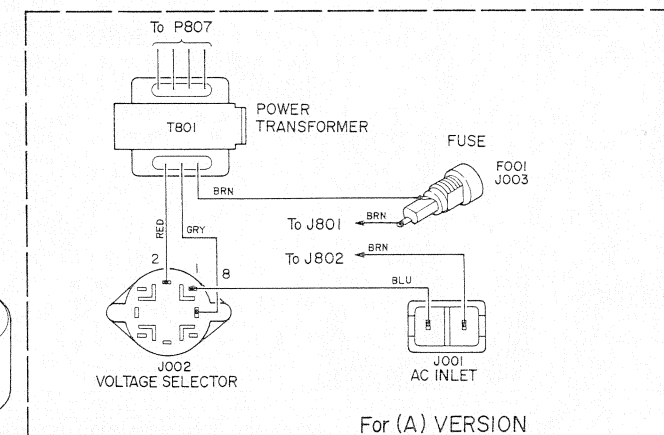
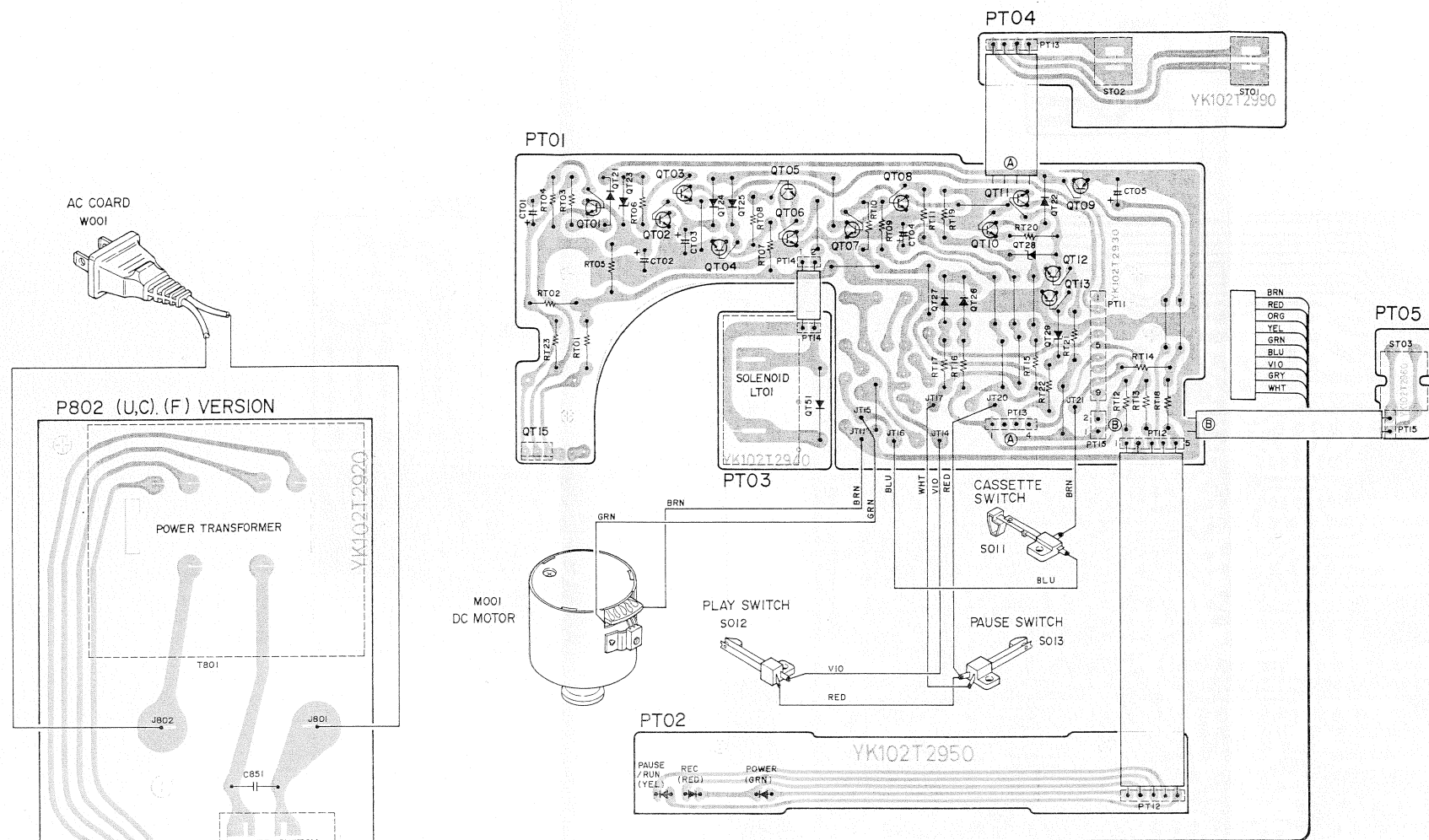
NOTE ON SAFETY: THE PARTS MARKED WITH  ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.

8.1 BLOCK AND LEVEL DIAGRAMS

RECORDING MODE
PLAY at MTT-150 1V 0dB

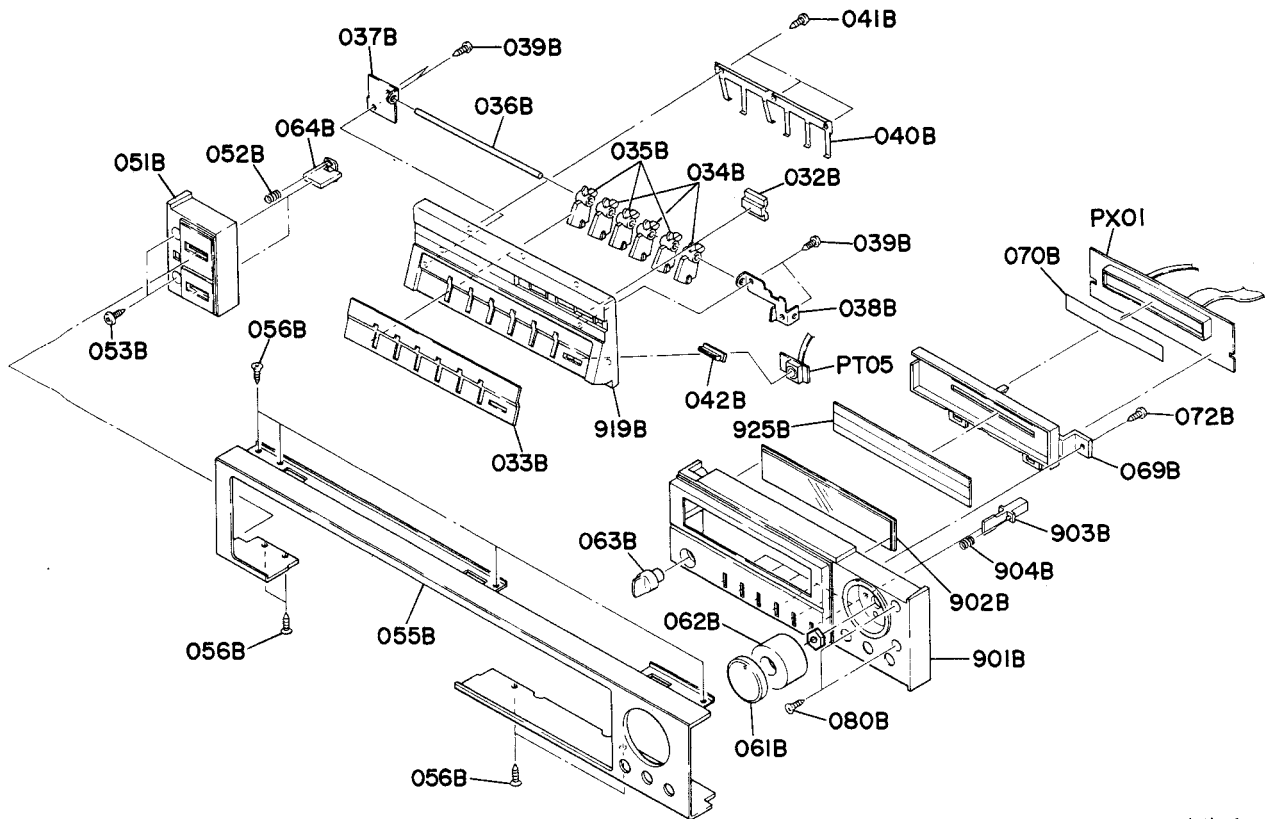
8.2 WIRING DIAGRAM





9. EXPLODED VIEWS AND PARTS LIST

9.1 [C01-99] FRONT PANEL

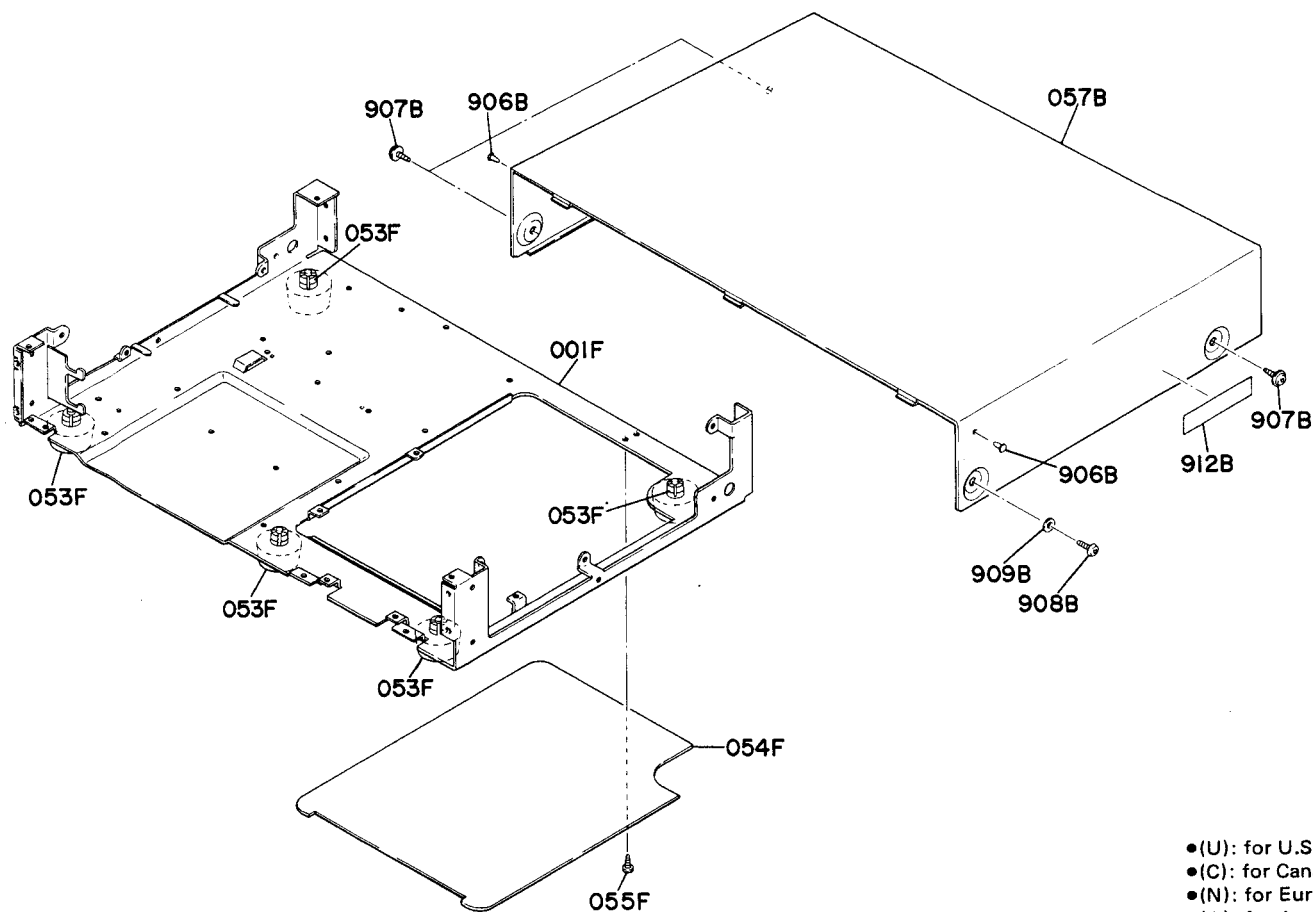


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
A	1	1	1	1	102T063400	Escutcheon Assembly, (R) Panel
069B	1	1	1	1	102T104050	Retainer, LED Meter
070B	1	1	1	1	102T303010	Mask
072B	1	1	1	1	51280310B0	B.H. Tapped Screw B3 x 10
901B	1	1	1	1	102T063040	Escutcheon, Right Panel
902B	1	1	1	1	102T158020	Window
903B	6	6	6	6	102T270010	Button, Tape Selector
904B	6	6	6	6	102T115010	Spring
925B	1	1	1	1	102T302010	Dial, LED Meter
B	1	1	1	1	102T063410	Escutcheon Assembly, (L) Panel
051B	1	1	1	1	102T063080	Escutcheon, Left Panel
052B	2	2	2	2	102T115010	Spring
064B	2	2	2	2	403H154010	Knob, Open/Close & Power

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
C	1	1	1	1	102T063420	Escutcheon Assembly, Mecha
032B	1	1	1	1	102T158010	Window
033B	1	1	1	1	102T063070	Escutcheon
034B	3	3	3	3	102T270030	Button, Rew, F.F., Pause
035B	3	3	3	3	102T270040	Button, Rec, Play, Stop
036B	1	1	1	1	102T112020	Shaft
037B	1	1	1	1	102T106050	Sustainer
038B	1	1	1	1	102T106060	Sustainer
039B	4	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
040B	1	1	1	1	102T115030	Spring
041B	3	3	3	3	51280306B0	B.H. Tapped Screw B3 x 6
919B	1	1	1	1	102T063050	Escutcheon, Mecha
042B	1	1	1	1	102T270050	Button, Rec Mute
053B	2	2	2	2	51340308B0	F.H. Tapped Screw F3 x 8
055B	1	1	1	1	102T063010	Escutcheon, Main Panel
056B	8	8	8	8	51340308B0	F.H. Tapped Screw F3 x 8
061B	1	1	1	1	102T154010	Knob, Rec VR (L)
062B	1	1	1	1	102T154020	Knob, Rec VR (R)
063B	1	1	1	1	102T154030	Knob, Output VR
080B	2	2	2	2	51340308B0	F.H. Tapped Screw F3 x 8

9.2 [C02-99] TOP COVER AND MAIN CHASSIS

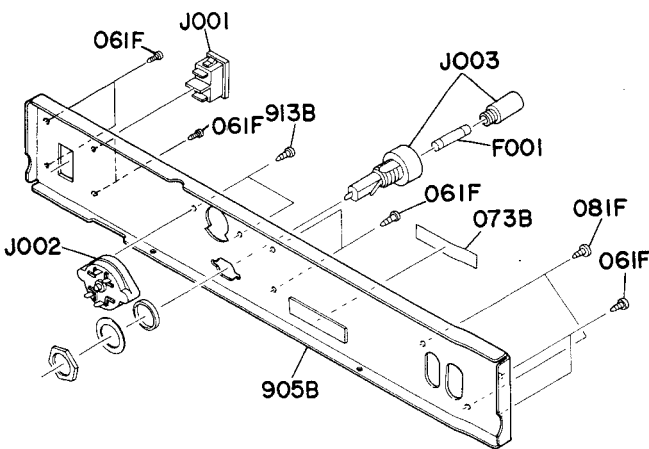
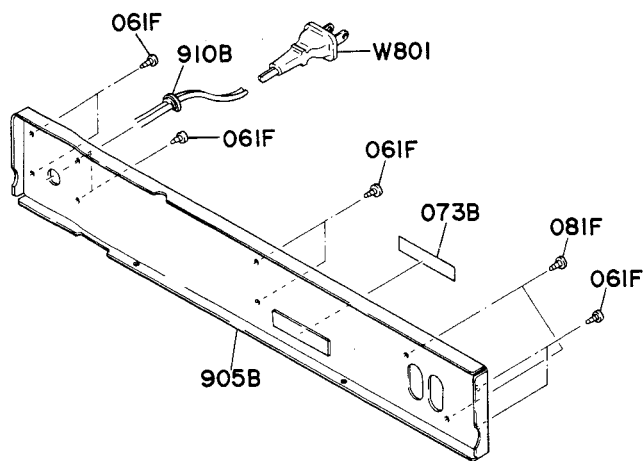


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
057B	1	1	1	1	102T257010	Lid, Top Cover
906B	2	2	2	2	2991259010	Bushing
907B	3	3	3	3	51260408Z0	B.T. Screw B4 x 8
908B	1	1	1	1	51280406Z0	B.H. Tapped Screw B4 x 6
909B	1	1	1	1	54020401Z0	Flat Washer, P.
		1				
912B	1		1	1	2932861010	Label
912B		1			2911861140	Label

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
001F	1	1	1	1	102T105010	Chassis, Main
053F	5	5	5	5	403H057010	Leg
054F	1	1	1	1	102T257020	Lid, Bottom Cover
055F	1	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6

9.3 [C03-99] REAR PANEL



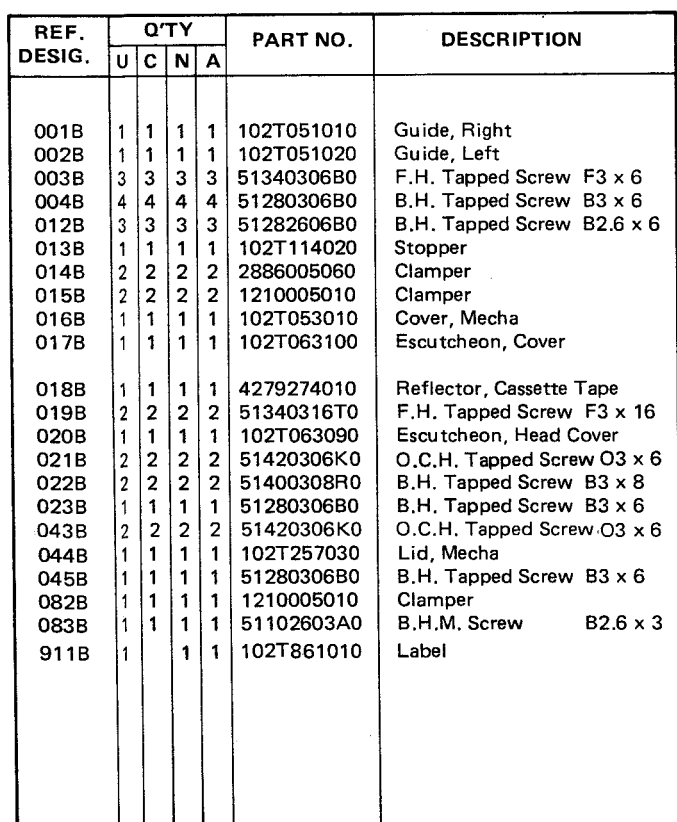
(Note on safety: The parts marked with  are important parts on the safety. Please use the parts having the designated parts numbers without fail.)

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
073B	1	1	1	1	2112265010	Indicator
905B	1	1			102T160130	Bracket, Rear
905B			1		102T160030	Bracket, Rear
905B				1	102T160050	Bracket, Rear
910B	1	1			1455259030	Bushing
913B			2	2	51280308U0	B.H. Tapped Screw B3 x 8
061F	8	8	8	8	51280306U0	B.H. Tapped Screw B3 x 6
081F	2	2	2	2	51280308U0	B.H. Tapped Screw B3 x 6

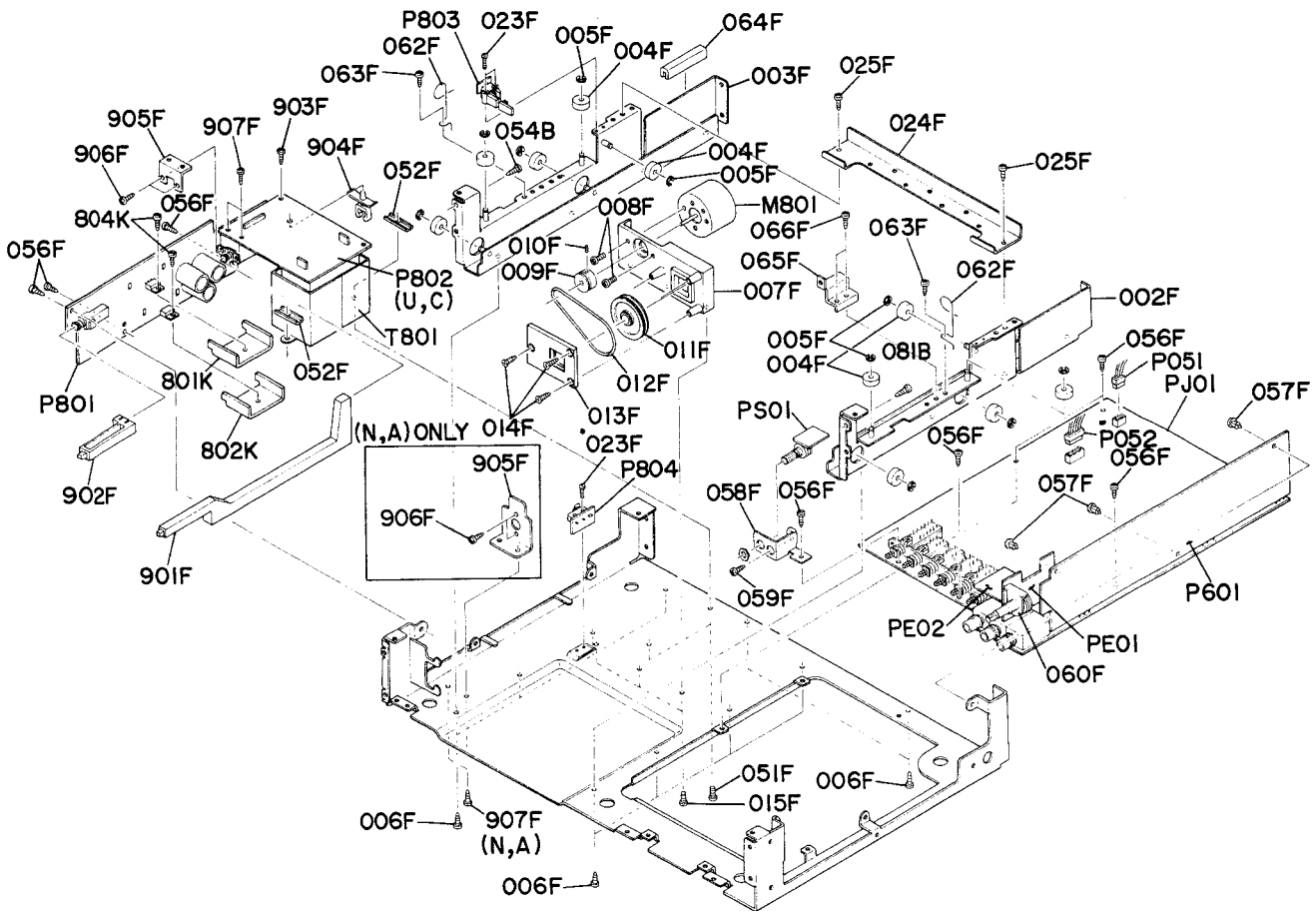
REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
 F001			1	1	FS10012800	Fuse T125mA
 J001			1	1	YP04000580	Plug, AC Inlet
 J002			1		BY05060030	Voltage Selector
 J002			1		BY05030030	Voltage Selector
 J003			1	1	YJ08000290	Jack, Fuse Holder
 W801	1	1			YC02000140	A.C Power Cord

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

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9.5 [P02-99] P.W. BOARDS AND OTHER PARTS

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

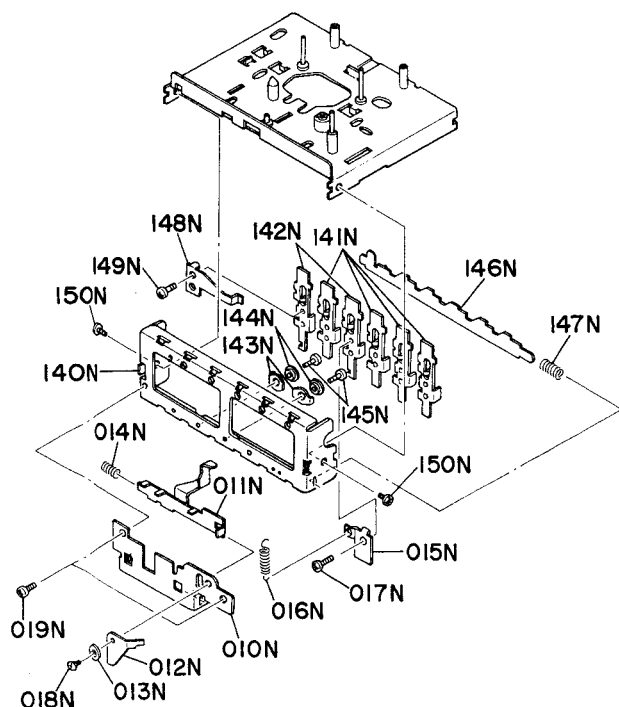


REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
054B	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
081B	1	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
002F	1	1	1	1	102T104010	Retainer, Right
003F	1	1	1	1	102T104020	Retainer, Left
004F	10	10	10	10	102T358010	Roller
005F	10	10	10	10	64000300R0	RG Ring, E Type
006F	8	8	8	8	51340306P0	F.H. Tapped Screw F3 x 6
007F	1	1	1	1	102T106010	Sustainer, Joint
008F	2	2	2	2	51102605A0	B.H.M. Screw B2.6 x 5
009F	1	1	1	1	102T262020	Pulley, Motor
010F	1	1	1	1	51690308Q9	Socket Screw, HP M3 x 8
011F	1	1	1	1	102T001010	Idler
012F	1	1	1	1	102T264020	Belt, Motor
013F	1	1	1	1	102T106030	Sustainer, Joint
014F	3	3	3	3	51340310B0	F.H. Tapped Screw F3 x 10
015F	2	2	2	2	51280310B0	B.H. Tapped Screw B3 x 10
023F	3	3	3	3	51100208A0	B.H.M. Screw B2 x 8
024F	1	1	1	1	102T104030	Retainer
025F	2	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
051F	2	2	2	2	51100408A9	B.H.M. Screw B4 x 8
052F	2	2	2	2	2922005010	Clamper
056F	8	8	8	8	51280306B0	B.H. Tapped Screw B3 x 6
057F	3	3	3	3	2276005050	Clamper
058F	1	1	1	1	102T160120	Bracket, Bias Fine
059F	1	1	1	1	51100306A9	B.H.M. Screw B3 x 6
060F	1	1	1	1	102T109010	Shield
062F	2	2	2	2	102T101010	Support

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
063F	2	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
064F	1	1	1	1	2965259010	Bushing
065F	1	1	1	1	102T114050	Stopper, In
066F	2	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
901F	1	1			102T121010	Link, Power Switch
901F			1	1	102T121020	Link, Power Switch
902F	1	1	1	1	102T121020	Link, Open/Close
903F	1	1			51280306B0	B.H. Tapped Screw B3 x 6
904F	1	1	1	1	2886005060	Clamper
905F	1	1			102T160190	Bracket, Power Switch
905F			1	1	102T160200	Bracket, Power Switch
906F	2	2	2	2	51100306A9	B.H.M. Screw B3 x 6
907F	2	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
801K	1	1	1	1	102T267020	Heat Sink
802K	1	1	1	1	102T267010	Heat Sink
803K			1	1	403H120010	Insulator
804K	2	2	2	2	51380306B0	P.H. Tapped Screw P3 x 6
M801	1	1	1	1	MM01000010	D.C. Motor, Door
△ T801	1	1			TS15401270	Power Transformer
△ T801			1		TS15401290	Power Transformer
△ T801				1	TS15401310	Power Transformer
P051	1	1	1	1	YB00600170	Connective Cord
P052	1	1	1	1	YB00600180	Connective Cord

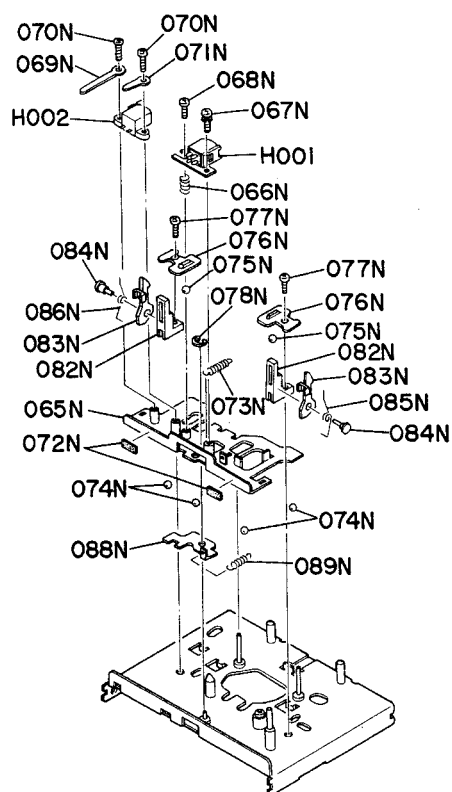
- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

9.6 [P03-99] OPERATION LEVERS



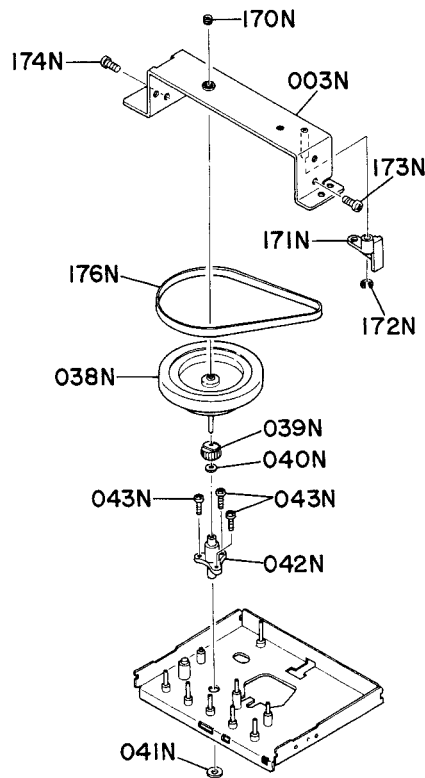
REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
010N	1	1	1	1	102T16015R	Bracket, Timer Lever Guide
011N	1	1	1	1	102T35405R	Lever, Timer Lock
012N	1	1	1	1	102T00205R	Arm
013N	1	1	1	1	102T05505R	Collar
014N	1	1	1	1	102T11505R	Spring
015N	1	1	1	1	102T35406R	Lever
016N	1	1	1	1	102T11506R	Spring
017N	1	1	1	1	51062604A0	P.H.M. Screw P2.6 x 4
018N	1	1	1	1	51040204A0	F.H.M. Screw F2 x 4
019N	2	2	2	2	51042604A0	F.H.M. Screw F2.6 x 4
140N	1	1	1	1	102T16016R	Bracket, Button Lever Frame
141N	4	4	4	4	102T35410R	Lever
142N	2	2	2	2	102T35410R	Lever, Rec/Play
143N	2	2	2	2	102T00216R	Arm
144N	2	2	2	2	102T05508R	Collar
145N	2	2	2	2	51042604A0	F.H.M. Screw F2.6 x 4
146N	1	1	1	1	102T12706R	Control Board
147N	1	1	1	1	102T11531R	Spring
148N	1	1	1	1	102T00217R	Arm, One Touch Rec
149N	1	1	1	1	51062604A0	P.H.M. Screw P2.6 x 4
150N	2	2	2	2	51060305A9	P.H.M. Screw P3 x 5

9.7 [P04-99] HEAD CHASSIS



REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
065N	1	1	1	1	102T10555R	Chassis, Head
066N	1	1	1	1	102T11517R	Spring, Azimuth
067N	1	1	1	1	51440205A0	L. Washer Screw M2 x 5
068N	1	1	1	1	102T25405R	Pin, Azimuth Adj.
069N	1	1	1	1	102T00505R	Clamper
070N	2	2	2	2	51100205A0	B.H.M. Screw B2 x 5
071N	1	1	1	1	62021030W0	Lug
072N	2	2	2	2	102T05606R	Buffer
073N	1	1	1	1	102T11518R	Spring
074N	4	4	4	4	61025010T0	Ball
075N	2	2	2	2	61020010T0	Ball
076N	2	2	2	2	102T00506R	Clamper
077N	2	2	2	2	51062606A0	P.H.M. Screw P2.6 x 6
078N	1	1	1	1	64002500R0	RG Ring, E Type
082N	2	2	2	2	102T05105R	Guide, Cassette
083N	2	2	2	2	102T00507R	Clamper
084N	2	2	2	2	102T11210R	Shaft
085N	1	1	1	1	102T11519R	Spring, (R)
086N	1	1	1	1	102T11520R	Spring, (L)
088N	1	1	1	1	102T35408R	Lever
089N	1	1	1	1	102T11521R	Spring
H001	1	1	1	1	LH42951040	Rec/Play Head
H002	1	1	1	1	LH31000510	Erase Head

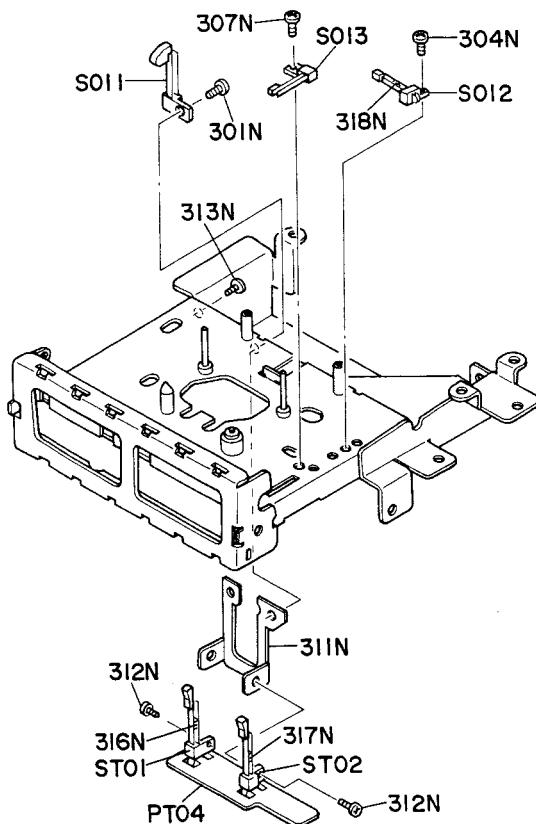
9.8 [P05-99] FLYWHEEL



•(U): for U.S.A.
 •(C): for Canada
 •(N): for Europe
 •(A): for Australia

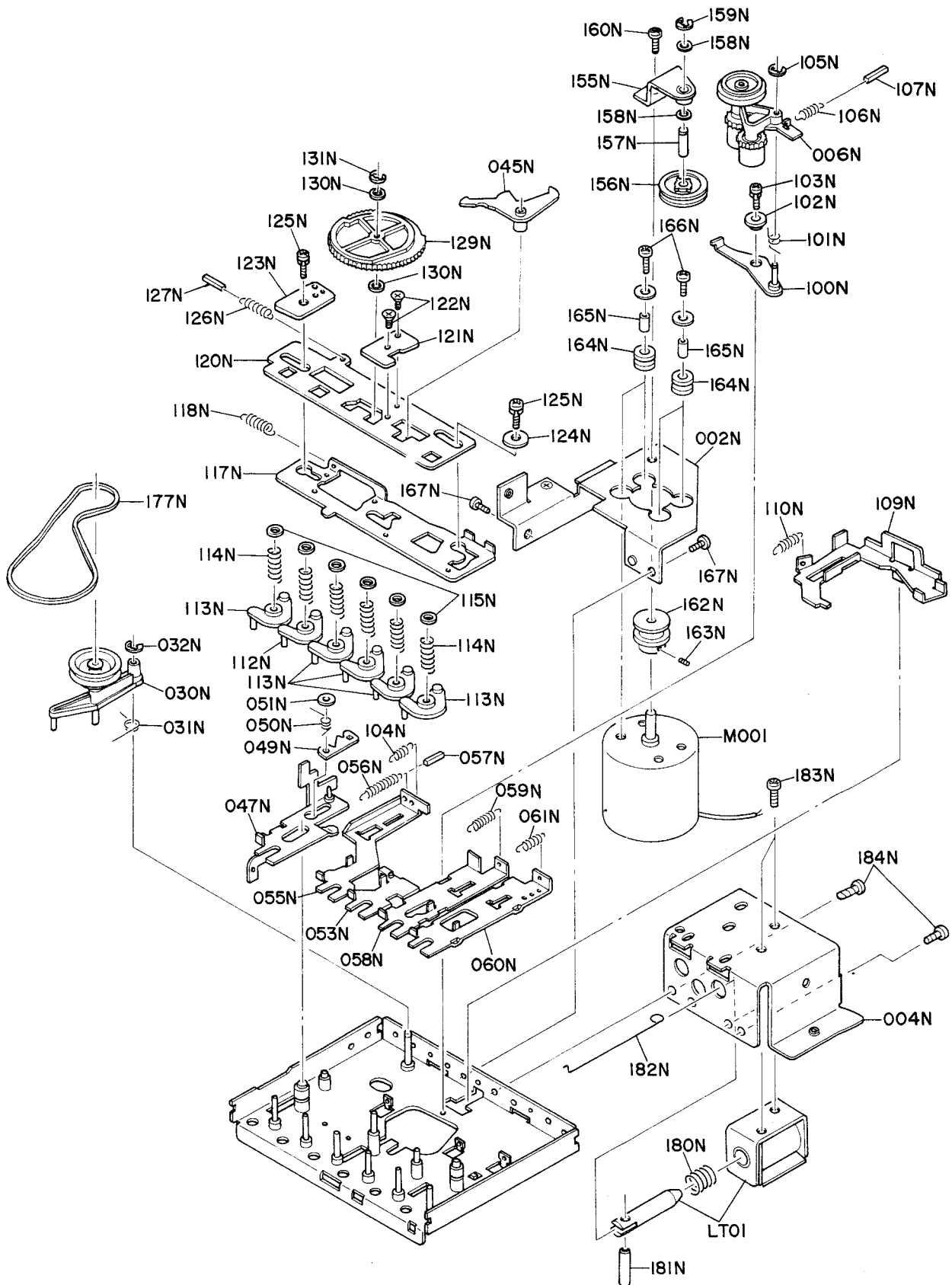
REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
003N	1	1	1	1	102T16008R	Bracket, Flywheel
038N	1	1	1	1	102T27351R	Flywheel
039N	1	1	1	1	102T05805R	Gear
040N	1	1	1	1	59264702G9	Washer
041N	1	1	1	1	102T11805R	Spacer
042N	1	1	1	1	102T10610R	Bearing
043N	3	3	3	3	51062605A0	P.H.M. Screw P2.6 x 5
170N	1	1	1	1	102T16405R	Adjuster
171N	1	1	1	1	102T35412R	Lever
172N	1	1	1	1	64002500R0	RG Ring, E Type
173N	1	1	1	1	51060304A9	P.H.M. Screw P3 x 4
174N	1	1	1	1	51060305A9	P.H.M. Screw P3 x 5
176N	1	1	1	1	102T26405R	Belt

9.9 [P06-99] SWITCH LOCATION



REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
301N	1	1	1	1	51100208A0	B.H.M. Screw B2 x 8
304N	1	1	1	1	51100204A0	B.H.M. Screw B2 x 4
307N	1	1	1	1	51062604A0	P.H.M. Screw P2.6 x 4
311N	1	1	1	1	102T160100	Bracket
312N	2	2	2	2	51062605A0	P.H.M. Screw P2.6 x 5
313N	1	1	1	1	51102605A0	B.H.M. Screw B2.6 x 5
316N	1	1	1	1	4367056020	Buffer
317N	1	1	1	1	4367056020	Buffer
318N	1	1	1	1	4367056020	Buffer
ST01	1	1	1	1	SM01010830	Mini Switch, Rec
ST02	1	1	1	1	SM01010820	Mini Switch, Brake
S011	1	1	1	1	SM01010810	Mini Switch, Cassette
S012	1	1	1	1	SM01010820	Mini Switch, Play
S013	1	1	1	1	SM01010840	Mini Switch, Pause

9.10 [P07-99] PARTS ASSEMBLED ON REVERSE OF CHASSIS

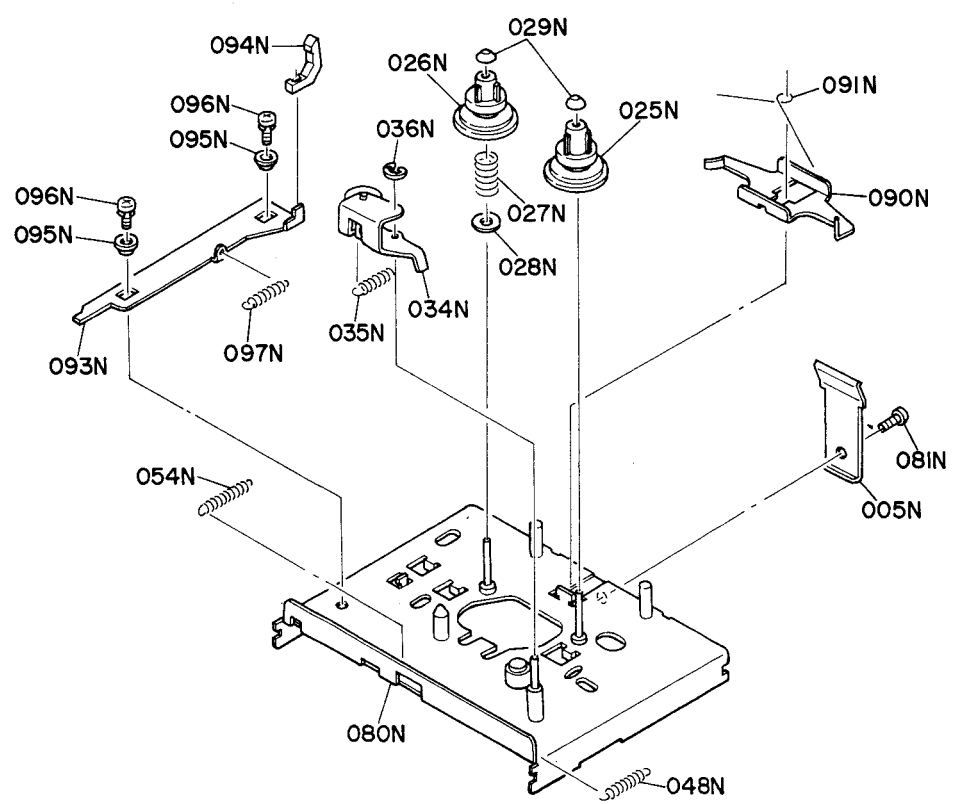


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
002N	1	1	1	1	102T16007R	Bracket, Motor
004N	1	1	1	1	102T16009R	Bracket, Solenoid
006N	1	1	1	1	102T00151R	Idler Assembly, FF/REW
030N	1	1	1	1	102T06151R	Clutch Assembly
031N	1	1	1	1	102T11509R	Spring
032N	1	1	1	1	64002500R0	RG Ring, E Type
045N	1	1	1	1	102T35407R	Lever
047N	1	1	1	1	102T00206R	Arm, Pause
049N	1	1	1	1	102T05405R	Cam, Pause Lock
050N	1	1	1	1	102T11512R	Spring
051N	1	1	1	1	59020805G9	Washer
053N	1	1	1	1	102T00207R	Arm, Play
055N	1	1	1	1	102T00208R	Arm, FF
056N	1	1	1	1	102T11514R	Spring
057N	1	1	1	1	102T05605R	Buffer
058N	1	1	1	1	102T00209R	Arm, REW
059N	1	1	1	1	102T11515R	Spring
060N	1	1	1	1	102T00210R	Arm, REC
061N	1	1	1	1	102T11516R	Spring
100N	1	1	1	1	102T35409R	Lever, FF/REW Idler
101N	1	1	1	1	102T11524R	Spring
102N	1	1	1	1	102T05507R	Collar
103N	1	1	1	1	51442605A0	L. Washer Screw M2.6 x 5
104N	1	1	1	1	102T11527R	Spring
105N	1	1	1	1	64002500R0	RG Ring, E Type
106N	1	1	1	1	102T11525R	Spring
107N	1	1	1	1	102T05605R	Buffer
109N	1	1	1	1	102T00213R	Arm, Brake
110N	1	1	1	1	102T11526R	Spring
112N	1	1	1	1	102T00214R	Arm, Stop
113N	5	5	5	5	102T00215R	Arm
114N	6	6	6	6	102T11528R	Spring
115N	6	6	6	6	102T11806R	Spacer
117N	1	1	1	1	102T05406R	Cam, Lock
118N	1	1	1	1	102T11529R	Spring
120N	1	1	1	1	102T12705R	Control Board
121N	1	1	1	1	102T35105R	Lining
122N	2	2	2	2	51042604A0	F.H.M. Screw F2.6 x 4
123N	1	1	1	1	102T00508R	Clamper
124N	1	1	1	1	102T11807R	Spacer
125N	2	2	2	2	51442606A0	L. Washer Screw M2.6 x 6
126N	1	1	1	1	102T11530R	Spring
127N	1	1	1	1	102T05605R	Buffer
129N	1	1	1	1	102T05806R	Gear
130N	2	2	2	2	59035402G9	Washer
131N	1	1	1	1	64002500R0	RG Ring, E Type
155N	1	1	1	1	102T16017R	Bracket
156N	1	1	1	1	102T00105R	Idler, Take up
157N	1	1	1	1	102T11211R	Shaft
158N	2	2	2	2	59020401G9	Washer

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
159N	1	1	1	1	64001500R0	RG Ring, E Type
160N	1	1	1	1	51442605A0	L. Washer Screw M2.6 x 5
162N	1	1	1	1	102T26205R	Pulley, Motor
163N	1	1	1	1	51610203A0	Set Screw, F.P. M2 x 3
134N	4	4	4	4	102T25905R	Bushing
165N	4	4	4	4	102T05509R	Collar
166N	4	4	4	4	102T11305R	Stud, Screw M2.6 x 7
167N	2	2	2	2	51060305A9	P.H.M. Screw P3 x 5
177N	1	1	1	1	102T26406R	Belt
180N	1	1	1	1	102T11532R	Spring
181N	1	1	1	1	63022520N0	Pad
182N	1	1	1	1	102T12105R	Link
183N	2	2	2	2	51060304A9	P.H.M. Screw P3 x 4
184N	2	2	2	2	51060305A9	P.H.M. Screw P3 x 5
LT01	1	1	1	1	ME1028002R	Solenoid Coil
M001	1	1	1	1	MM11200160	D.C. Motor 2200rpm

9.11 [P08-99] PARTS ASSEMBLED ON TOP OF CHASSIS

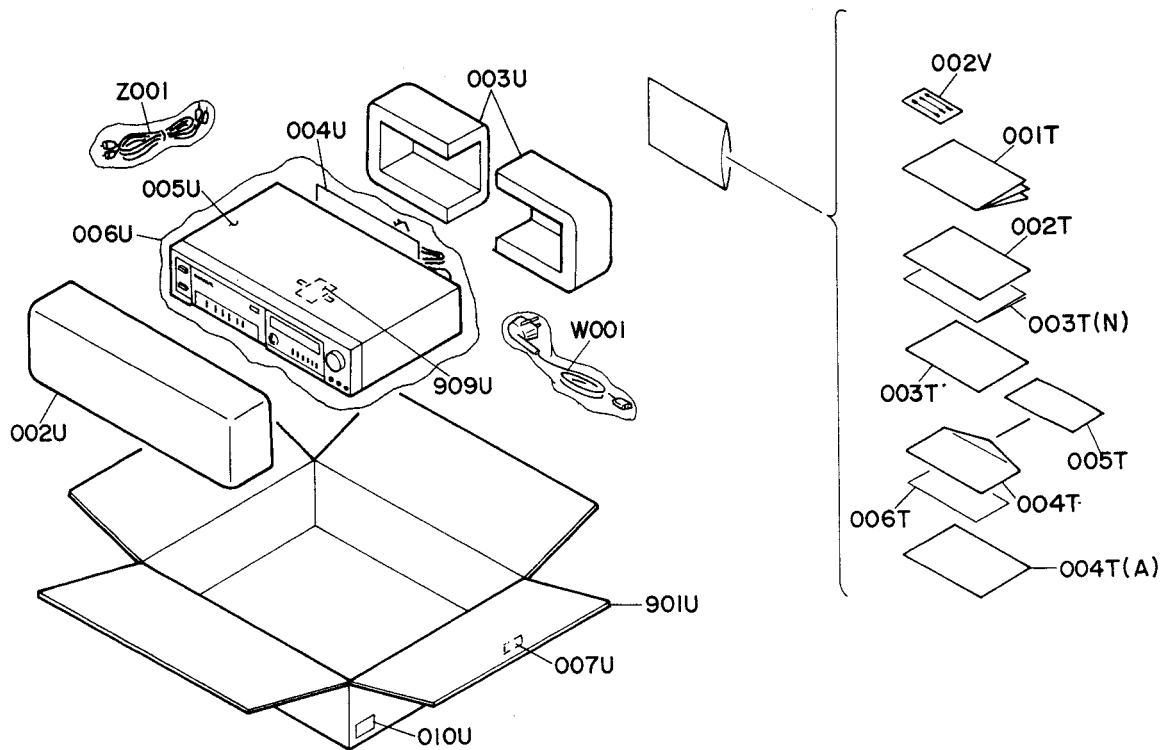


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
005N	1	1	1	1	102T11502R	Spring
025N	1	1	1	1	102T00451R	Reel Table, Take up
026N	1	1	1	1	102T00451R	Reel Table, Supply
027N	1	1	1	1	102T11508R	Spring, Back Tention
028N	1	1	1	1	59069502G9	Washer
029N	2	2	2	2	102T06705R	Cap
034N	1	1	1	1	102T25551R	Pinch Roller
035N	1	1	1	1	102T11510R	Spring
036N	1	1	1	1	64002500R0	RG Ring, E Type
048N	1	1	1	1	102T11511R	Spring, Pause Arm

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
054N	1	1	1	1	102T11513R	Spring, Play Arm
080N	1	1	1	1	102T10556R	Chassis, Main
081N	1	1	1	1	51060305A9	P.H.M. Screw P3 x 5
090N	1	1	1	1	102T00211R	Arm, Brake
091N	1	1	1	1	102T11522R	Spring
093N	1	1	1	1	102T00212R	Arm, Rec Safety
094N	1	1	1	1	102T27205R	Pole
095N	2	2	2	2	102T05506R	Collar
096N	2	2	2	2	51062605A0	P.H.M. Screw P2.6 x 5
097N	1	1	1	1	102T11523R	Spring

9.12 [H01-99] PACKING MATERIALS



- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
001T	1			1	102T851010	Instructions
001T		1	1		102T851310	Instructions
002T	1				102T851020	Instructions
002T		1			102T851220	Instructions
002T			1		102T851320	Instructions
003T	1				2818854020	Guarantee Card
003T		1			2818854040	Guarantee Card
003T			1		102T856010	Circuit Diagram
003T				1	2205851040	Instructions
004T	1				2225813010	Envelope
004T		1			2918813010	Envelope
004T				1	9631000090	Guarantee Card
005T		1			9631000080	Guarantee Card
006T		1			9650000050	S. Station Card

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
002U	1	1	1	1	102T809010	Cushion, Front
003U	1	1	1	1	001H809010	Cushion, Rear
004U	1	1			2918107390	Sheet, Rear Panel
005U	1	1	1	1	2918107350	Sheet, Top Cover
006U	1	1	1	1	9090909040	Polyethy Sheet
007U	2				9526019010	Serial No. Card
007U		2			9526019020	Serial No. Card
007U			4	4	9526019060	Serial No. Card
010U		2			9510901020	Label
901U	1	1			102T801010	Packing Case
901U			1	1	102T801030	Packing Case
909U			1		2731821010	Silicagel
002V	1	1	1	1	4136071010	Cleaner
△W001			1		ZC01805010	AC Power Cord
△W001				1	ZC02006020	AC Power Cord
Z001	2	2	2	2	ZD01000170	Connective Cord

- (U): for U.S.A.
- (C): for Canada
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- (A): for Australia

9.13 ELECTRICAL PARTS

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
P601	1	1	1	1	YK102T1520 ZZ102T1520	P601-DOLBY CIRCUIT BOARD P.W. Board, Dolby P.W. Board Assembly
P601-CAPACITORS						
C601	1	1	1	1	EA10505030	Elect 1 μ F 50V
C602	1	1	1	1	EA10505030	Elect 1 μ F 50V
C603	1	1	1	1	EA10602530	Elect 10 μ F 25V
C604	1	1	1	1	EA10602530	Elect 10 μ F 25V
C605	1	1	1	1	EA10405030	Elect 0.1 μ F 50V
C606	1	1	1	1	EA10405030	Elect 0.1 μ F 50V
C607	1	1	1	1	EA33405030	Elect 0.33 μ F 50V
C608	1	1	1	1	EA33405030	Elect 0.33 μ F 50V
C609	1	1	1	1	DF15473300	Film 0.047 μ F $\pm$ 5%
C610	1	1	1	1	DF15473300	Film 0.047 μ F $\pm$ 5%
C611	1	1	1	1	EA10602530	Elect 10 μ F 25V
C612	1	1	1	1	EA10602530	Elect 10 μ F 25V
C613	1	1	1	1	DF15273300	Film 0.027 μ F $\pm$ 5%
C614	1	1	1	1	DF15273300	Film 0.027 μ F $\pm$ 5%
C615	1	1	1	1	DF15472300	Film 0.0047 μ F $\pm$ 5%
C616	1	1	1	1	DF15472300	Film 0.0047 μ F $\pm$ 5%
C617	1	1	1	1	DF15562300	Film 0.0056 μ F $\pm$ 5%
C618	1	1	1	1	DF15562300	Film 0.0056 μ F $\pm$ 5%
C619	1	1	1	1	EA10702530	Elect 100 μ F 25V
C620	1	1	1	1	EA10702530	Elect 100 μ F 25V
C621	1	1	1	1	EA10702530	Elect 100 μ F 25V
C622	1	1	1	1	EA10702530	Elect 100 μ F 25V
C623	1	1	1	1	DF15102300	Film 0.001 μ F $\pm$ 5%
C624	1	1	1	1	DF15102300	Film 0.001 μ F $\pm$ 5%
C625	1	1	1	1	EA10602530	Elect 10 μ F 25V
C626	1	1	1	1	EA10602530	Elect 10 μ F 25V
△ C627	1	1	1	1	EA10602530	Elect 10 μ F 25V
△ C628	1	1	1	1	EA10602530	Elect 10 μ F 25V
C629	1	1	1	1	EA10602530	Elect 10 μ F 25V
C630	1	1	1	1	EA10602530	Elect 10 μ F 25V
C631	1	1	1	1	EA10602530	Elect 10 μ F 25V
C632	1	1	1	1	EA10602530	Elect 10 μ F 25V
C633	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
C634	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
C635	1	1	1	1	EA10505030	Elect 1 μ F 50V
C636	1	1	1	1	EA10505030	Elect 1 μ F 50V
C637	1	1	1	1	EA10702530	Elect 100 μ F 25V
C638	1	1	1	1	EA10702530	Elect 100 μ F 25V
C639	1	1	1	1	EA22505030	Elect 2.2 μ F 50V
C640	1	1	1	1	EA22505030	Elect 2.2 μ F 50V
C641	1	1	1	1	DD15471370	Ceramic 470pF $\pm$ 5%
C642	1	1	1	1	DD15471370	Ceramic 470pF $\pm$ 5%
C643	1	1	1	1	EA10602530	Elect 10 μ F 25V
C644	1	1	1	1	EA10602530	Elect 10 μ F 25V
C645	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
C646	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
C651	1	1	1	1	EA10701030	Elect 100 μ F 10V

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
P601-RESISTORS (All Resistors are $\pm 5\%$ & $\frac{1}{4}W$)						
R601	1	1	1	1	GD05274140	270K Ω
R602	1	1	1	1	GD05274140	270K Ω
R603	1	1	1	1	GD05273140	27K Ω
R604	1	1	1	1	GD05273140	27K Ω
R605	1	1	1	1	GD05332140	3.3K Ω
R606	1	1	1	1	GD05332140	3.3K Ω
R607	1	1	1	1	GD05181140	180 Ω
R608	1	1	1	1	GD05181140	180 Ω
R609	1	1	1	1	GD05104140	100K Ω
R610	1	1	1	1	GD05104140	100K Ω
R611	1	1	1	1	GD05104140	100K Ω
R612	1	1	1	1	GD05104140	100K Ω
△ R613	1	1	1	1	GG05560140	56 Ω
△ R614	1	1	1	1	GG05560140	56 Ω
R615	1	1	1	1	GD05104140	100K Ω
R616	1	1	1	1	GD05104140	100K Ω
R617	1	1	1	1	GD05104140	100K Ω
R618	1	1	1	1	GD05104140	100K Ω
R619	1	1	1	1	GD05104140	100K Ω
R620	1	1	1	1	GD05104140	100K Ω
R621	1	1	1	1	GD05153140	15K Ω
R622	1	1	1	1	GD05153140	15K Ω
R623	1	1	1	1	GD05102140	10K Ω
R624	1	1	1	1	GD05102140	10K Ω
R625	1	1	1	1	GD05822140	8.2K Ω
R626	1	1	1	1	GD05822140	8.2K Ω
R627	1	1	1	1	GD05102140	1K Ω
R628	1	1	1	1	GD05102140	1K Ω
R629	1	1	1	1	GD05105140	1M Ω
R630	1	1	1	1	GD05105140	1M Ω
R631	1	1	1	1	GD05562140	5.6K Ω
R632	1	1	1	1	GD05562140	5.6K Ω
R633	1	1	1	1	GD05272140	2.7K Ω
R634	1	1	1	1	GD05272140	2.7K Ω
R635	1	1	1	1	GD05104140	100K Ω
R636	1	1	1	1	GD05104140	100K Ω
R637	1	1	1	1	GA05681010	680 Ω 1W
R638	1	1	1	1	GA05681010	680 Ω 1W
R639	1	1	1	1	RA05020180	5K Ω Trimming, Meter (L)
R640	1	1	1	1	RA05020180	5K Ω Trimming, Meter (R)
R641	1	1	1	1	GD05123140	12K Ω
R642	1	1	1	1	GD05123140	12K Ω
R643	1	1	1	1	GD05103140	10K Ω
R644	1	1	1	1	GD05103140	10K Ω
R645	1	1	1	1	GD05151140	150 Ω
R646	1	1	1	1	GD05151140	150 Ω
R647	1	1	1	1	GD05101140	100 Ω
R648	1	1	1	1	GD05101140	100 Ω
R649	1	1	1	1	GD05101140	100 Ω
R650	1	1	1	1	GD05101140	100 Ω
R653	1	1	1	1	GD05561140	560 Ω
R654	1	1	1	1	GD05561140	560 Ω
R655	1	1	1	1	GD05561140	560 Ω
R656	1	1	1	1	GD05561140	560 Ω
R657	1	1	1	1	GD05562140	5.6K Ω
R658	1	1	1	1	GD05562140	5.6K Ω
R659	1	1	1	1	GD05153140	15K Ω
R660	1	1	1	1	GD05153140	15K Ω
R661	1	1	1	1	GD05224140	220K Ω
R662	1	1	1	1	GD05224140	220K Ω

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
R663	1	1	1	1	GD05102140	1K Ω
R664	1	1	1	1	GD05102140	1K Ω
R665	1	1	1	1	GD05102140	1K Ω
R666	1	1	1	1	GD05102140	1K Ω
P601-SEMICONDUCTORS						
Q601	1	1	1	1	HC10007270	IC NE645B
Q602	1	1	1	1	HC10007270	IC NE645B
Q603	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q604	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q605	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q606	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q607	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q608	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q609	1	1	1	1	HT326341T0	Transistor 2SC2634(T)
Q610	1	1	1	1	HT326341T0	Transistor 2SC2634(T)
Q611	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q612	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
Q615	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
Q616	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
Q621	1	1	1	1	HD20001210	Diode 1S2473C
Q622	1	1	1	1	HD20001210	Diode 1S2473C
Q623	1	1	1	1	HD30030090	Zener WZ177
Q624	1	1	1	1	HD30030090	Zener WZ177
Q625	1	1	1	1	HD10004020	Diode OA91
Q626	1	1	1	1	HD10004020	Diode OA91
Q627	1	1	1	1	HD10004020	Diode OA91
Q628	1	1	1	1	HD10004020	Diode OA91
Q629	1	1	1	1	HD20001210	Diode 1S2473C
Q630	1	1	1	1	HD20001210	Diode 1S2473C
Q631	1	1	1	1	HH00003030	Thermistor STD-04
Q632	1	1	1	1	HH00003030	Thermistor STD-04
P601-MISCELLANEOUS						
J662	1	1	1	1	YJ06002390	Jack (5P)
J663	1	1	1	1	YJ06002380	Jack (1P)
L601	1	1	1	1	LS20015010	M.P.X. Coil
L602	1	1	1	1	LS20015010	M.P.X. Coil
P801-POWER SUPPLY CIRCUIT BOARD						
P801	1	1	1	1	YK102T2910	P.W. Board, Power Supply
	1	1			ZZ102T2910	P.W. Board Assembly
			1	1	ZZ102T8910	P.W. Board Assembly
P801-CAPACITORS						
△C801	1	1	1	1	EA22603530	Elect 22 μ F 35V
△C802	1	1	1	1	EA10803530	Elect 1000 μ F 35V
△C803	1	1	1	1	EA10803530	Elect 1000 μ F 35V
C804	1	1	1	1	EA47702530	Elect 470 μ F 25V
△C805	1	1	1	1	EA10802530	Elect 1000 μ F 25V
C806	1	1	1	1	DK18473320	Ceramic 0.047 μ F
C807	1	1	1	1	EQ10505030	Elect 1 μ F 50V
△C808	1	1	1	1	EA10802530	Elect 1000 μ F 25V
C809	1	1	1	1	EA22702530	Elect 220 μ F 25V
C810	1	1	1	1	EA22701030	Elect 220 μ F 10V
C811	1	1	1	1	EA22701030	Elect 220 μ F 10V
C812	1	1	1	1	EA10701630	Elect 100 μ F 16V
C851	1	1	1	1	DK18103840	Ceramic 0.01 μ F, Spark Killer

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
P801-RESISTORS						
△R801	1	1	1	1	GA05102010	1KΩ ±5% 1W
△R802	1	1	1	1	GA05056010	5.6Ω ±5% 1W
△R803	1	1	1	1	GA05821010	820Ω ±5% 1W
△R804	1	1	1	1	GA05181010	180Ω ±5% 1W
△R805	1	1	1	1	GA05102010	1KΩ ±5% 1W
R808	1	1	1	1	GD05223140	22KΩ ±5% ¼W
R809	1	1	1	1	GD05222140	2.2KΩ ±5% ¼W
R810	1	1	1	1	GD05333140	33KΩ ±5% ¼W
R812	1	1	1	1	RF05022120	2.2Ω ±5% ¼W
R813	1	1	1	1	GD05683140	68KΩ ±5% ¼W
P801-SEMICONDUCTORS						
△Q801	1	1	1	1	HT403131E0	Transistor 2SD313(E)
△Q802	1	1	1	1	HT403131E0	Transistor 2SD313(E)
Q803	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
Q804	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
△Q811	1	1	1	1	HD20021290	Diode 1SVB
△Q812	1	1	1	1	HD20026080	Diode RB151-FA
△Q813	1	1	1	1	HD20022100	Diode 10E1-FA
Q814	1	1	1	1	HD30030090	Zener WZ177
△Q815	1	1	1	1	HD30048090	Zener WZ210
△Q816	1	1	1	1	HD30024090	Zener WZ120
Q817	1	1	1	1	HD20022100	Diode 10E1-FA
Q818	1	1	1	1	HD30031090	Zener WZ081
P801-MISCELLANEOUS						
J801			1	1	YL01010040	Terminal, AC
J802			1	1	YL01010040	Terminal, AC
J803			1	1	YJ08000200	Jack, Fuse Clip
J804			1	1	YJ08000200	Jack, Fuse Clip
J805			1	1	YJ08000200	Jack, Fuse Clip
J806			1	1	YJ08000200	Jack, Fuse Clip
△F801			1	1	FS10063800	Fuse T630mA
△F802			1	1	FS10100800	Fuse T1A
L801	1	1	1	1	LC14730040	Choke Coil 47μH
L802	1	1	1	1	LC14730040	Choke Coil 47μH
△S801			1	1	SP01010390	Push Switch, Power
S802	1	1	1	1	SP04010380	Push Switch, Open/Close
P812	1	1	1	1	YB00150170	Connective Cord, (9P)
P813	1	1	1	1	YJ06002460	Jack, (7P)
P814	1	1	1	1	YU03140260	Jumper Lead, (3P) 140mm
P815	1	1	1	1	YU02240260	Jumper Lead, (2P) 240mm
P816	1	1	1	1	YP06002370	Plug, (2P)
P817	1	1	1	1	YB00260040	Connective Cord, (2P)
P802-AC POWER CIRCUIT BOARD						
P802	1	1			YK102T2920	P.W. Board, AC Power
			1	1	ZZ102T2920	P.W. Board Assembly
C851	1	1			DK18103530	Ceramic Cap. 0.01μF Spark Killer
△S801	1	1			SP01010420	Push Switch, Power
△T801	1	1			TS15401270	Power Transformer
J801	1	1			YL01010040	Terminal, AC
J802	1	1			YL01010040	Terminal, AC

•(U): for U.S.A.
 •(C): for Canada
 •(N): for Europe
 •(A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
P803	1	1	1	1	YK102T2980	P803-DOOR SWITCH CIRCUIT BOARD
	1	1	1	1	ZZ102T2980	P.W. Board, Door Switch P.W. Board Assembly
C813	1	1	1	1	EA10505030	Elect Cap. 1 μ F 50V
S805	1	1	1	1	SM01020140	Mini Switch, Close
P804	1	1	1	1	YK102T2970	P804-DOOR SWITCH CIRCUIT BOARD
	1	1	1	1	YK102T2970	P.W. Board, Door Switch P.W. Board Assembly
C814	1	1	1	1	EA10505030	Elect Cap. 1 μ F 50V
S804	1	1	1	1	SC01020340	Mini Switch, Open
PE01	1	1	1	1	YK102T1530	PE01-REC VOLUME CIRCUIT BOARD
	1	1	1	1	ZZ102T1530	P.W. Board, Rec Volume P.W. Board Assembly
RE11	1	1	1	1	RD05030120	Variable Resist, 50K Ω
RE12	1	1	1	1	RD05030120	Variable Resist, 50K Ω
PE02	1	1	1	1	YK102T1540	PE02-SWITCH CIRCUIT BOARD
	1	1	1	1	YK102T1540	P.W. Board, Switch
PJ01	1	1	1	1	YK102T1510	PJ01-PRE AMP CIRCUIT BOARD
	1	1	1	1	ZZ102T1510	P.W. Board, Pre Amp P.W. Board Assembly
CE01	1	1	1	1	DD15470370	PJ01-CAPACITORS
	1	1	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
CE02	1	1	1	1	DD15470370	Ceramic 47pF $\pm$ 5%
CE03	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE04	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE05	1	1	1	1	DD15150370	Ceramic 15pF $\pm$ 5%
CE06	1	1	1	1	DD15150370	Ceramic 15pF $\pm$ 5%
CE07	1	1	1	1	EA10702530	Elect 100 μ F 25V
CE08	1	1	1	1	EA10702530	Elect 100 μ F 25V
CE09	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE10	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE11	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE12	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE13	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE14	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE15	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE16	1	1	1	1	EA10505030	Elect 1 μ F 50V
CE81	1	1	1	1	EA10702530	Elect 100 μ F 25V
CJ01	1	1	1	1	DF55361510	Film 360pF $\pm$ 5%
CJ02	1	1	1	1	DF55361510	Film 360pF $\pm$ 5%
CJ03	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CJ04	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CJ05	1	1	1	1	EA22602530	Elect 22 μ F 25V

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
CJ06	1	1	1	1	EA22602530	Elect 22 μ F 25V
CJ07	1	1	1	1	DD15470370	Ceramic 470pF $\pm$ 5%
CJ08	1	1	1	1	DD15470370	Ceramic 470pF $\pm$ 5%
CJ09	1	1	1	1	EA47601630	Elect 47 μ F 16V
CJ10	1	1	1	1	EA47601630	Elect 47 μ F 16V
CJ11	1	1	1	1	EA10602530	Elect 10 μ F 25V
CJ12	1	1	1	1	EA10602530	Elect 10 μ F 25V
CJ13	1	1	1	1	EA10602530	Elect 10 μ F 25V
CJ14	1	1	1	1	EA10602530	Elect 10 μ F 25V
CJ15	1	1	1	1	DF15153300	Film 0.015 μ F $\pm$ 5%
CJ16	1	1	1	1	DF15153300	Film 0.015 μ F $\pm$ 5%
CJ17	1	1	1	1	DF15153300	Film 0.015 μ F $\pm$ 5%
CJ18	1	1	1	1	DF15153300	Film 0.015 μ F $\pm$ 5%
CJ19	1	1	1	1	DF15822300	Film 0.0082 μ F $\pm$ 5%
CJ20	1	1	1	1	DF15822300	Film 0.0082 μ F $\pm$ 5%
CJ21	1	1	1	1	EA10505030	Elect 1 μ F 50V
CJ22	1	1	1	1	EA10505030	Elect 1 μ F 50V
CJ23	1	1	1	1	EA10505030	Elect 1 μ F 50V
CJ24	1	1	1	1	EA10505030	Elect 1 μ F 50V
CJ25	1	1	1	1	EA10702530	Elect 100 μ F 25V
CJ26	1	1	1	1	EA10702530	Elect 100 μ F 25V
CJ29	1	1	1	1	EA47601630	Elect 47 μ F 16V
CJ30	1	1	1	1	EA47601630	Elect 47 μ F 16V
CJ81	1	1	1	1	DD15101370	Ceramic 100pF $\pm$ 5%
CJ82	1	1	1	1	DD15101370	Ceramic 100pF $\pm$ 5%
CL01	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CL02	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CL03	1	1	1	1	EA47601630	Elect 47 μ F 16V
CL04	1	1	1	1	EA47601630	Elect 47 μ F 16V
CL05	1	1	1	1	EA22405030	Elect 0.22 μ F 50V
CL06	1	1	1	1	EA22405030	Elect 0.22 μ F 50V
CL07	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CL08	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CL09	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CL10	1	1	1	1	EA47505030	Elect 4.7 μ F 50V
CL11	1	1	1	1	DD15101370	Ceramic 100pF $\pm$ 5%
CL12	1	1	1	1	DD15101370	Ceramic 100pF $\pm$ 5%
CL13	1	1	1	1	DF15333300	Film 0.033 μ F $\pm$ 5%
CL14	1	1	1	1	DF15333300	Film 0.033 μ F $\pm$ 5%
CL15	1	1	1	1	DF15683300	Film 0.068 μ F $\pm$ 5%
CL16	1	1	1	1	DF15683300	Film 0.068 μ F $\pm$ 5%
CL21	1	1	1	1	DF15183300	Film 0.018 μ F $\pm$ 5%
CL22	1	1	1	1	DF15183300	Film 0.018 μ F $\pm$ 5%
CL23	1	1	1	1	DF15153300	Film 0.015 μ F $\pm$ 5%
CL24	1	1	1	1	DF15153300	Film 0.015 μ F $\pm$ 5%
CL25	1	1	1	1	DF15152300	Film 0.0015 μ F $\pm$ 5%
CL26	1	1	1	1	DF15152300	Film 0.0015 μ F $\pm$ 5%
CO01	1	1	1	1	DF55221090	Film 220pF $\pm$ 5%
CO02	1	1	1	1	DF55221090	Film 220pF $\pm$ 5%
CO03	1	1	1	1	DF75153510	Film 0.015 μ F $\pm$ 5%
CO04	1	1	1	1	DF75562510	Film 0.0056 μ F $\pm$ 5%
CO05	1	1	1	1	DF75682510	Film 0.0068 μ F $\pm$ 5%
CO06	1	1	1	1	DF75682510	Film 0.0068 μ F $\pm$ 5%
CO07	1	1	1	1	DF75333510	Film 0.033 μ F $\pm$ 5%
CO08	1	1	1	1	DF75333510	Film 0.033 μ F $\pm$ 5%
CO09	1	1	1	1	EA22505030	Elect 2.2 μ F 50V
CS01	1	1	1	1	EA22702530	Elect 220 μ F 25V
CS02	1	1	1	1	EA22701030	Elect 220 μ F 10V
CS03	1	1	1	1	EA10505030	Elect 1 μ F 50V

- (U): for U.S.A.
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- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
						PJ01-RESISTORS (All Resistors are $\pm 5\%$ & $\frac{1}{4}W$)
RE01	1	1	1	1	GD05183140	18K Ω
RE02	1	1	1	1	GD05183140	18K Ω
RE03	1	1	1	1	GD05103140	10K Ω
RE04	1	1	1	1	GD05103140	10K Ω
RE05	1	1	1	1	GD05102140	1K Ω
RE06	1	1	1	1	GD05102140	1K Ω
RE07	1	1	1	1	GD05223140	22K Ω
RE08	1	1	1	1	GD05223140	22K Ω
RE09	1	1	1	1	GD05153140	15K Ω
RE10	1	1	1	1	GD05153140	15K Ω
RE13	1	1	1	1	GD05223140	22K Ω
RE14	1	1	1	1	GD05223140	22K Ω
RE15	1	1	1	1	GD05104140	100K Ω
RE16	1	1	1	1	GD05104140	100K Ω
RE17	1	1	1	1	GD05104140	100K Ω
RE18	1	1	1	1	GD05104140	100K Ω
RE19	1	1	1	1	GD05104140	100K Ω
RE20	1	1	1	1	GD05104140	100K Ω
RE21	1	1	1	1	GD05102140	1K Ω
RE22	1	1	1	1	GD05102140	1K Ω
RJ01	1	1	1	1	GD05100140	10 Ω
RJ02	1	1	1	1	GD05100140	10 Ω
RJ03	1	1	1	1	GD05101140	100 Ω
RJ04	1	1	1	1	GD05101140	100 Ω
RJ05	1	1	1	1	GD05224140	220K Ω
RJ06	1	1	1	1	GD05224140	220K Ω
RJ07	1	1	1	1	GD05683140	68K Ω
RJ08	1	1	1	1	GD05683140	68K Ω
RJ09	1	1	1	1	GD05104140	100K Ω
RJ10	1	1	1	1	GD05104140	100K Ω
RJ11	1	1	1	1	GD05333140	33K Ω
RJ12	1	1	1	1	GD05333140	33K Ω
RJ13	1	1	1	1	GD05103140	10K Ω
RJ14	1	1	1	1	GD05103140	10K Ω
RJ15	1	1	1	1	GD05223140	22K Ω
RJ16	1	1	1	1	GD05223140	22K Ω
RJ17	1	1	1	1	GD05470140	47 Ω
RJ18	1	1	1	1	GD05470140	47 Ω
RJ19	1	1	1	1	GD05152140	1.5K Ω
RJ20	1	1	1	1	GD05152140	1.5K Ω
RJ21	1	1	1	1	GD05562140	5.6K Ω
RJ22	1	1	1	1	GD05562140	5.6K Ω
RJ23	1	1	1	1	GD05102140	1K Ω
RJ24	1	1	1	1	GD05102140	1K Ω
RJ25	1	1	1	1	RA05020300	5K Ω Trimming (L)
RJ26	1	1	1	1	RA05020300	5K Ω Trimming (R)
RJ27	1	1	1	1	GD05394140	390K Ω
RJ28	1	1	1	1	GD05394149	390K Ω
RJ29	1	1	1	1	GD05822140	8.2K Ω
RJ30	1	1	1	1	GD05822140	8.2K Ω
RJ31	1	1	1	1	GD05682140	6.8K Ω
RJ32	1	1	1	1	GD05682140	6.8K Ω
RJ33	1	1	1	1	GD05561140	560 Ω
RJ34	1	1	1	1	GD05561140	560 Ω
RJ35	1	1	1	1	GD05104140	100K Ω

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
RJ36	1	1	1	1	GD05104140	100K Ω
RJ37	1	1	1	1	GD05104140	100K Ω
RJ38	1	1	1	1	GD05104140	100K Ω
RJ39	1	1	1	1	GD05104140	100K Ω
RJ40	1	1	1	1	GD05104140	100K Ω
△RJ41	1	1	1	1	GA05102010	1K Ω 1W
△RJ42	1	1	1	1	GA05102010	1K Ω 1W
RJ43	1	1	1	1	RA05030280	50K Ω Trimming, P-Gain (L)
RJ44	1	1	1	1	RA05030280	50K Ω Trimming, P-Gain (R)
RJ45	1	1	1	1	GD05334140	330K Ω
RJ46	1	1	1	1	GD05334140	330K Ω
RJ81	1	1	1	1	GD05562140	5.6K Ω
RJ82	1	1	1	1	GD05223140	22K Ω
RJ83	1	1	1	1	GD05224140	220K Ω
RJ84	1	1	1	1	GG05102120	1K Ω $\frac{1}{4}W$
RJ85	1	1	1	1	GD05562140	5.6K Ω
RL01	1	1	1	1	RA02030170	20K Ω Trim., Rec Gain (L)
RL02	1	1	1	1	RA02030170	20K Ω Trim., Rec Gain (R)
RL03	1	1	1	1	GD05103140	10K Ω
RL04	1	1	1	1	GD05103140	10K Ω
RL05	1	1	1	1	GD05472140	4.7K Ω
RL06	1	1	1	1	GD05472140	4.7K Ω
RL07	1	1	1	1	GD05561140	560 Ω
RL08	1	1	1	1	GD05561140	560 Ω
RL09	1	1	1	1	GD05153140	15K Ω
RL10	1	1	1	1	GD05153140	15K Ω
RL11	1	1	1	1	GD05473140	47K Ω
RL12	1	1	1	1	GD05473140	47K Ω
RL13	1	1	1	1	GD05564140	560K Ω
RL14	1	1	1	1	GD05564140	560K Ω
RL15	1	1	1	1	GD05153140	15K Ω
RL16	1	1	1	1	GD05153140	15K Ω
RL17	1	1	1	1	GD05102140	1K Ω
RL18	1	1	1	1	GD05102140	1K Ω
RL19	1	1	1	1	GD05152140	1.5K Ω
RL20	1	1	1	1	GD05152140	1.5K Ω
RL21	1	1	1	1	GD05392140	3.9K Ω
RL22	1	1	1	1	GD05392140	3.9K Ω
RL23	1	1	1	1	GD05222140	2.2K Ω
RL24	1	1	1	1	GD05222140	2.2K Ω
RL27	1	1	1	1	GD05102140	1K Ω
RL28	1	1	1	1	GD05102140	1K Ω
RL29	1	1	1	1	GD05820140	82 Ω
RL30	1	1	1	1	GD05820140	82 Ω
RL31	1	1	1	1	GD05680140	68 Ω
RL32	1	1	1	1	GD05680140	68 Ω
RL33	1	1	1	1	GD05560140	56 Ω
RL34	1	1	1	1	GD05560140	56 Ω
RL35	1	1	1	1	GD05220140	22 Ω
RL36	1	1	1	1	GD05220140	22 Ω
RL37	1	1	1	1	GD05103140	10K Ω
RL38	1	1	1	1	GD05103140	10K Ω
RL81	1	1	1	1	GD05102140	1K Ω
RL82	1	1	1	1	GD05102140	1K Ω
RL83	1	1	1	1	GD05102140	1K Ω
RL84	1	1	1	1	GD05102140	1K Ω

- (U): for U.S.A.
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REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
RO01	1	1	1	1	RA05030290	50K Ω Trimming
RO02	1	1	1	1	RA05030290	50K Ω Trimming
RO03	1	1	1	1	GA05103010	10K Ω 1W
RO04	1	1	1	1	GA05103010	10K Ω 1W
RO05	1	1	1	1	GD05120140	12 Ω
RO06	1	1	1	1	GD05120140	12 Ω
RO07	1	1	1	1	GD05273140	27K Ω
RO08	1	1	1	1	GD05273140	27K Ω
RS01	1	1	1	1	GD05472140	4.7K Ω
RS02	1	1	1	1	GD05103140	10K Ω
RS03	1	1	1	1	GD05103140	10K Ω
RS04	1	1	1	1	GD05103140	10K Ω
RS05	1	1	1	1	GD05822140	8.2K Ω
RS06	1	1	1	1	GD05103140	10K Ω
RS07	1	1	1	1	GD05223140	22K Ω
RS08	1	1	1	1	GD05682140	6.8K Ω
RS09	1	1	1	1	GD05223140	22K Ω
RS10	1	1	1	1	GD05222140	2.2K Ω
RS11	1	1	1	1	GD05272140	2.7K Ω
RS12	1	1	1	1	GD05562140	5.6K Ω
RS13	1	1	1	1	GD05332140	3.3K Ω
RS18	1	1	1	1	GD05562140	5.6K Ω
RS19	1	1	1	1	GD05562140	5.6K Ω
PJ01-SEMICONDUCTORS						
QE01	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QE02	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QE03	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QE04	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QE05	1	1	1	1	HC10006090	IC NJM387
QJ01	1	1	1	1	HT107501E0	Transistor 2SA750(E)
QJ02	1	1	1	1	HT107501E0	Transistor 2SA750(E)
QJ03	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QJ04	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QJ05	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QJ06	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QJ07	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QJ08	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QJ81	1	1	1	1	HD20001210	Diode 1S2473C
QJ82	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QL01	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QL02	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QL03	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QL04	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QL05	1	1	1	1	HC10052050	IC TD62504P
QL06	1	1	1	1	HC10052050	IC TD62504P
QO01	1	1	1	1	HT313841R0	Transistor 2SC1384(R)
QO02	1	1	1	1	HT313841R0	Transistor 2SC1384(R)
QS01	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QS02	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QS03	1	1	1	1	HT107502B0	Transistor 2SA750(E or U)
QS04	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QS05	1	1	1	1	HD20001210	Diode 1S2473C
QS06	1	1	1	1	HD20001210	Diode 1S2473C
QS07	1	1	1	1	HD20001210	Diode 1S2473C
QS08	1	1	1	1	HD20001210	Diode 1S2473C
QS09	1	1	1	1	HD30033090	Zener WZ052
QS10	1	1	1	1	HT403131E0	Transistor 2SC313(E)
QS11	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
JJ01	1	1	1	1	YJ01001450	PJ01-MISCELLANEOUS Jack, Mic Input (L)
JJ02	1	1	1	1	YJ01001450	Jack, Mic Input (R)
JJ03	1	1	1	1	YT02040260	Terminal, RCA. Pin
JJ04	1	1	1	1	YJ01001460	Jack, Headphone
LJ01	1	1	1	1	LY20240200	Relay
LL01	1	1	1	1	LC22260060	Choke Coil 22mH
LL02	1	1	1	1	LC22260060	Choke Coil 22mH
LL03	1	1	1	1	LC24750040	Choke Coil 4.7mH
LL04	1	1	1	1	LC24750040	Choke Coil 4.7mH
SJ01	1	1	1	1	SP04060140	Push Switch, Mic/Line
SJ02	1	1	1	1	SP04060140	Push Switch, Dolby MPX
SJ03	1	1	1	1	SP04060140	Push Switch, Metal
SJ04	1	1	1	1	SP04060140	Push Switch, Fecr
SJ05	1	1	1	1	SP04060140	Push Switch, CrO ₂
SJ06	1	1	1	1	SP04060140	Push Switch, Normal
TO01	1	1	1	1	TC10150030	OSC Transformer
PJ01	1	1	1	1	YP06002420	Plug, (6P)
PJ02	1	1	1	1	YP06002360	Plug, (3P)
PS03	1	1	1	1	YU07300260	Jumper Lead, (7P) 300mm
PS01-BIAS FAIN CIRCUIT BOARD						
PS01	1	1	1	1	YK102T1550	P.W. Board, Bias Fain
	1	1	1	1	ZZ102T1550	P.W. Board Assembly
PS01-RESISTORS						
RS14	1	1	1	1	GD05391140	390 Ω $\pm 5\%$ $\frac{1}{4}W$
RS15	1	1	1	1	GD05182140	1.8K Ω $\pm 5\%$ $\frac{1}{4}W$
RS16	1	1	1	1	RK02020110	2K Ω (B) Variable
RS17	1	1	1	1	GD05472140	4.7K Ω $\pm 5\%$ $\frac{1}{4}W$
PS01-SEMICONDUCTORS						
QS12	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
PS01-JUMPER						
PS11	1	1	1	1	YU03140260	Jumper Lead, (3P) 140mm
PT01-MECHA CONTROLE CIRCUIT BOARD						
PT01	1	1	1	1	YK102T2950	P.W. Board, Mecha Controle
	1	1	1	1	ZZ102T2950	P.W. Board Assembly
PT01-CAPACITORS						
CT01	1	1	1	1	EA10602530	Elect 10 μF 25V
CT02	1	1	1	1	EA22701630	Elect 220 μF 16V
CT03	1	1	1	1	EA10701030	Elect 100 μF 10V
CT04	1	1	1	1	EA10701030	Elect 100 μF 10V
CT05	1	1	1	1	EA22701030	Elect 220 μF 10V

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe
- (A): for Australia

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
PT01-RESISTORS (All Resistors are $\pm 5\%$ & $\frac{1}{4}W$)						
RT01	1	1	1	1	GD05221140	220 Ω
RT02	1	1	1	1	GD05223140	22K Ω
RT03	1	1	1	1	GD05152140	1.5K Ω
RT04	1	1	1	1	GD05223140	22K Ω
RT05	1	1	1	1	GD05103140	10K Ω
RT06	1	1	1	1	GD05102140	1K Ω
RT07	1	1	1	1	GD05562140	5.6K Ω
RT08	1	1	1	1	GD05102140	1K Ω
RT09	1	1	1	1	GD05562140	5.6K Ω
RT10	1	1	1	1	GD05123140	12K Ω
RT11	1	1	1	1	GD05223140	22K Ω
RT12	1	1	1	1	GD05102140	1K Ω
RT13	1	1	1	1	GD05182140	1.8K Ω
RT14	1	1	1	1	GD05561140	560 Ω
RT15	1	1	1	1	GD05103140	10K Ω
RT16	1	1	1	1	GD05103140	10K Ω
RT17	1	1	1	1	GD05103140	10K Ω
RT18	1	1	1	1	GD05471140	470 Ω
RT19	1	1	1	1	GD05472140	4.7K Ω
RT20	1	1	1	1	GD05472140	4.7K Ω
RT21	1	1	1	1	GD05223140	22K Ω
RT22	1	1	1	1	GD05153140	15K Ω
RT23	1	1	1	1	GD05103140	10K Ω
PT01-SEMICONDUCTORS						
QT01	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QT02	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QT03	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QT04	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QT05	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QT06	1	1	1	1	HT406672F0	Transistor 2SD667(C or D)
QT07	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QT08	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QT09	1	1	1	1	HT326341S0	Transistor 2SC2634(S)
QT10	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QT11	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QT12	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QT13	1	1	1	1	HT326342A0	Transistor 2SC2634(S or R)
QT15	1	1	1	1	HC10024020	IC DN6838
QT21	1	1	1	1	HD20001210	Diode 1S2473C
QT22	1	1	1	1	HD20001210	Diode 1S2473C
QT23	1	1	1	1	HD30031090	Zener WA081
QT24	1	1	1	1	HD20001210	Diode 1S2473C
QT25	1	1	1	1	HD20001210	Diode 1S2473C
QT26	1	1	1	1	HD20001210	Diode 1S2473C
QT27	1	1	1	1	HD20001210	Diode 1S2473C
QT28	1	1	1	1	HD30033090	Zener WZ052
QT29	1	1	1	1	HD30031090	Zener WZ081
PT01-MISCELLANEOUS						
PT11	1	1	1	1	YP06002440	Plug, (9P)
PT12	1	1	1	1	YU05180260	Jumper Lead, (5P) 180mm
PT13	1	1	1	1	YU04160260	Jumper Lead, (4P) 160mm
PT14	1	1	1	1	YU02120260	Jumper Lead, (2P) 120mm
PT16	1	1	1	1	YJ06002500	Jack, (2P)

REF. DESIG.	Q'TY				PART NO.	DESCRIPTION
	U	C	N	A		
PT02	1	1	1	1	YK102T2950	PT02-LED CIRCUIT BOARD P.W. Board, LED P.W. Board Assembly
	1	1	1	1	ZZ102T2950	
QT41	1	1	1	1	HI10007320	L.E.D. GL-9RP9, Rec
QT42	1	1	1	1	HI10005320	L.E.D. GL-9HY9
QT43	1	1	1	1	HI10006320	L.E.D. GL-9NG9, Power
PT03	1	1	1	1	YK102T2940	PT03-SOLENOID CIRCUIT BOARD P.W. Board, Solenoid P.W. Board Assembly
	1	1	1	1	ZZ102T2940	
QT51	1	1	1	1	HD20022100	Diode 10EI-FA
LT01	1	1	1	1	ME1028002R	Solenoid Coil
PT04	1	1	1	1	YK102T2990	PT04-LEAF SWITCH CIRCUIT BOARD P.W. Board, Leaf Switch P.W. Board Assembly
	1	1	1	1	ZZ102T2290	
ST01	1	1	1	1	SM01010830	Mini Switch, Rec
ST02	1	1	1	1	SM01010820	Mini Switch, Brake
PT05	1	1	1	1	YK102T2960	PT05-REC MUTE CIRCUIT BOARD P.W. Board, Rec Mute P.W. Board Assembly
	1	1	1	1	ZZ102T2960	
ST03	1	1	1	1	SP01010350	Push Switch, Rec Mute
PT15	1	1	1	1	YU02300260	Jumper Lead, (2P) 120mm
PX01	1	1	1	1	HI11203320	PX01-LED METER UNIT CIRCUIT BOARD P.W. Board, LED Meter Unit P.W. Board Assembly
	1	1	1	1	ZZ11203320	
QX02	1	1	1	1	HI10015020	L.E.D. LN317GP, Dolby
DX62	1	1	1	1	YU05120260	Jumper Lead, (5P) 120mm

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

10. TECHNICAL SPECIFICATIONS

Style	Slim type top load
Tape Drive System	Single Capstan Drive
Cartridge	Philips type compact cassette
Track System	Compatible Stereo 4-track 2-channel
Tape Speed	4.75 cm/sec.
Heads	2 Head System
Composition	Rec/Play: Super Hard Metal Alloy
	Erase: Dual gap Ferrite
Motor	2 Motor System
	Capstan: DC Servo Motor
	Mechanism: DC Motor
Meters	12 Dots Peak LED Meter x 2
Overall Frequency Response at -20 dB	
Ferric Oxide Tape	40 Hz ~ 15.5 kHz
CrO ₂ Tape	35 Hz ~ 16.5 kHz
Fe-Cr Tape	35 Hz ~ 17 kHz
Metal Tape	35 Hz ~ 18 kHz
Signal-to-Noise Ratio:	
Dolby (ON)	66 dB
Dolby (OFF)	58 dB
Wow and Flutter	
DIN WTD	0.08%
Outputs	
Line Level/Impedance	500 mV/8.5 K Ω
Headphone Level/Impedance	50 mV/8 Ω
Input (Level at 0 VU)	
Line Sensitivity/Impedance	50 mV/50 k Ω
Mic Sensitivity/Impedance	0.2 mV/10 k Ω
Fast Rewind Time	80 sec. (C-60)
Fast Forward Time	80 sec. (C-60)
AC Line Voltage	120 V AC, 60 Hz (U & C Version)
	220 V AC, 50/60 Hz (N Version)
	240 V AC, 50/60 Hz (A Version)
	(N and A versions are featuring the external voltage selector for use on other voltage.)
Power Consumption	25 W
Dimensions (W x H x D)	416 x 73 x 302 mm
Weight	6 kg

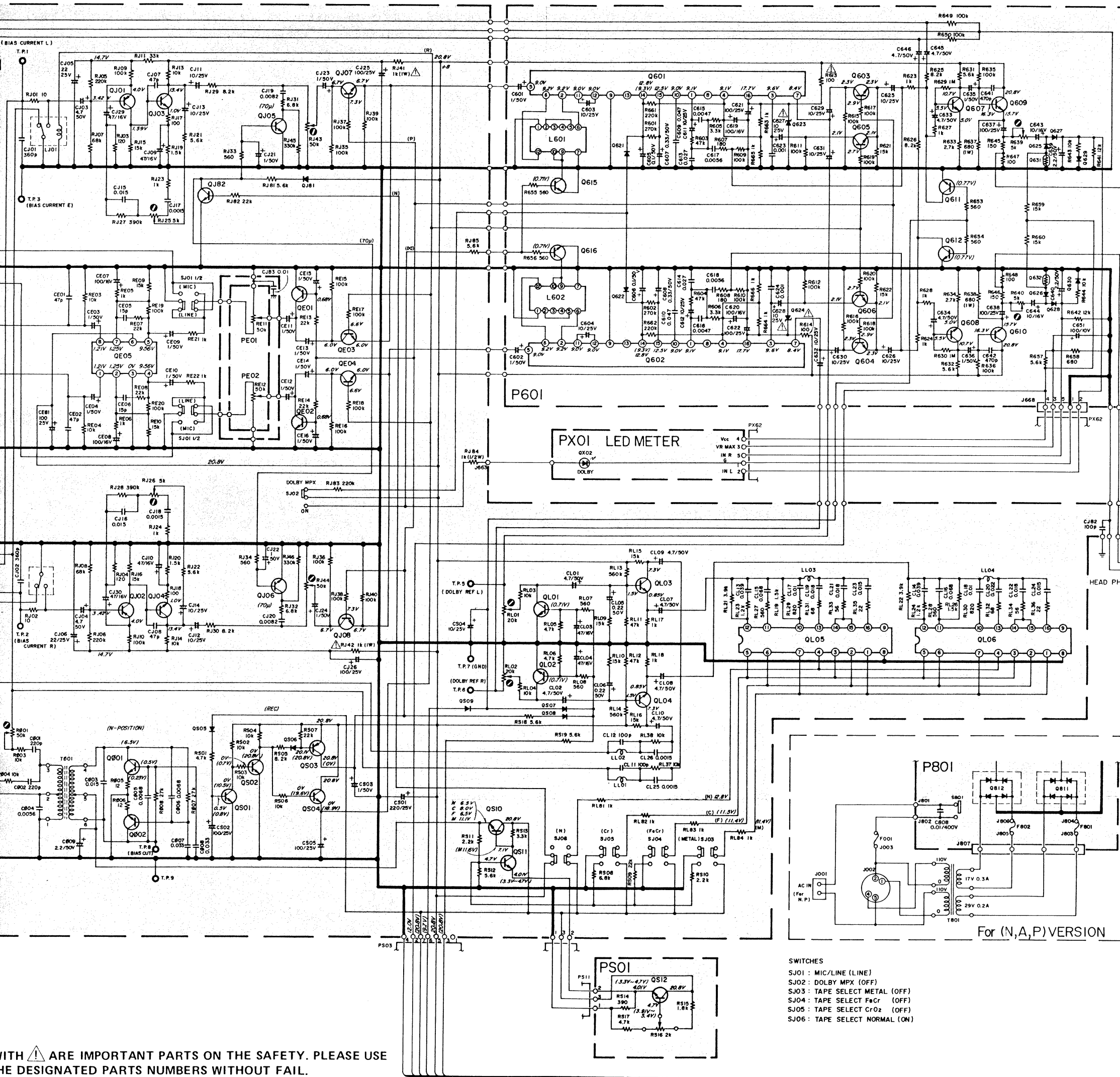
X

X



NOTE ON SAFETY:
THE PARTS MARKED WITH ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE PARTS HAVING THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.

Q603~Q608, Q611, Q612 Q609, Q610 Q615, Q616, Q601, Q602 Q621, Q622, Q629, Q630 Q623, Q624, Q814 Q625~Q628 Q631, Q632 Q801, Q802, Q810 Q811 Q812 Q813, Q817 Q815 Q816 Q818, Q823, Q803, Q804, Q807, Q808, Q812, Q813, Q814, Q815, Q816, Q817, Q818, Q819, Q820, Q821, Q822, Q823, Q824, Q825, Q826, Q827, Q828, Q829, Q830, Q831, Q832, Q833, Q834, Q835, Q836, Q837, Q838, Q839, Q840, Q841, Q842, Q843, Q844, Q845, Q846, Q847, Q848, Q849, Q850, Q851, Q852, Q853, Q854, Q855, Q856, Q857, Q858, Q859, Q860, Q861, Q862, Q863, Q864, Q865, Q866, Q867, Q868, Q869, Q870, Q871, Q872, Q873, Q874, Q875, Q876, Q877, Q878, Q879, Q880, Q881, Q882, Q883, Q884, Q885, Q886, Q887, Q888, Q889, Q890, Q891, Q892, Q893, Q894, Q895, Q896, Q897, Q898, Q899, Q900, Q901, Q902, Q903, Q904, Q905, Q906, Q907, Q908, Q909, Q910, Q911, Q912, Q913, Q914, Q915, Q916, Q917, Q918, Q919, Q920, Q921, Q922, Q923, Q924, Q925, Q926, Q927, Q928, Q929, Q930, Q931, Q932, Q933, Q934, Q935, Q936, Q937, Q938, Q939, Q940, Q941, Q942, Q943, Q944, Q945, Q946, Q947, Q948, Q949, Q950, Q951, Q952, Q953, Q954, Q955, Q956, Q957, Q958, Q959, Q960, Q961, Q962, Q963, Q964, Q965, Q966, Q967, Q968, Q969, Q970, Q971, Q972, Q973, Q974, Q975, Q976, Q977, Q978, Q979, Q980, Q981, Q982, Q983, Q984, Q985, Q986, Q987, Q988, Q989, Q990, Q991, Q992, Q993, Q994, Q995, Q996, Q997, Q998, Q999, Q1000



WITH ! ARE IMPORTANT PARTS ON THE SAFETY. PLEASE USE THE DESIGNATED PARTS NUMBERS WITHOUT FAIL.

SWITCHES
SJ01 : MIC/LINE (LINE)
SJ02 : DOLBY MPX (OFF)
SJ03 : TAPE SELECT METAL (OFF)
SJ04 : TAPE SELECT FeCr (OFF)
SJ05 : TAPE SELECT CrO2 (OFF)
SJ06 : TAPE SELECT NORMAL (ON)

Q801,Q802,Q805
HT403131E0
2SD313(E)

Q811
HD20021290
ISVB

Q812
HD20026080
RB151-FA

Q813,Q817
HD20022100
10E1-FA

Q815
HD30048090
WZ210

Q816
HD30024090
WZ120

Q818,QT23,QT29
HD30031090
WZ081

QE05
HC10006090
NJM387

QJ01,QJ02,QS03
HT107501E0
2SA750(E)

QL05,QL06
HC10052050
TD62504P

QT06
HT406672F0
2SD667(C or D)

QT21,QT22,QT24~QT27
HD20001210
1S2473C

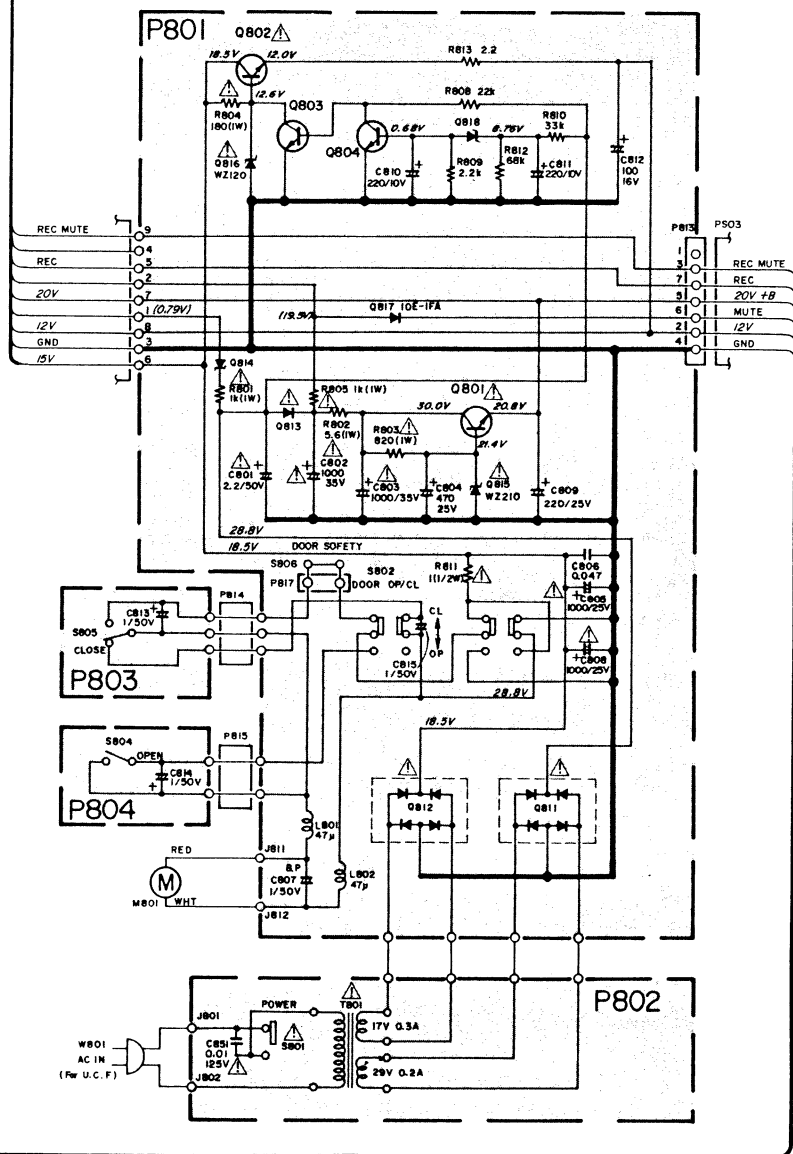
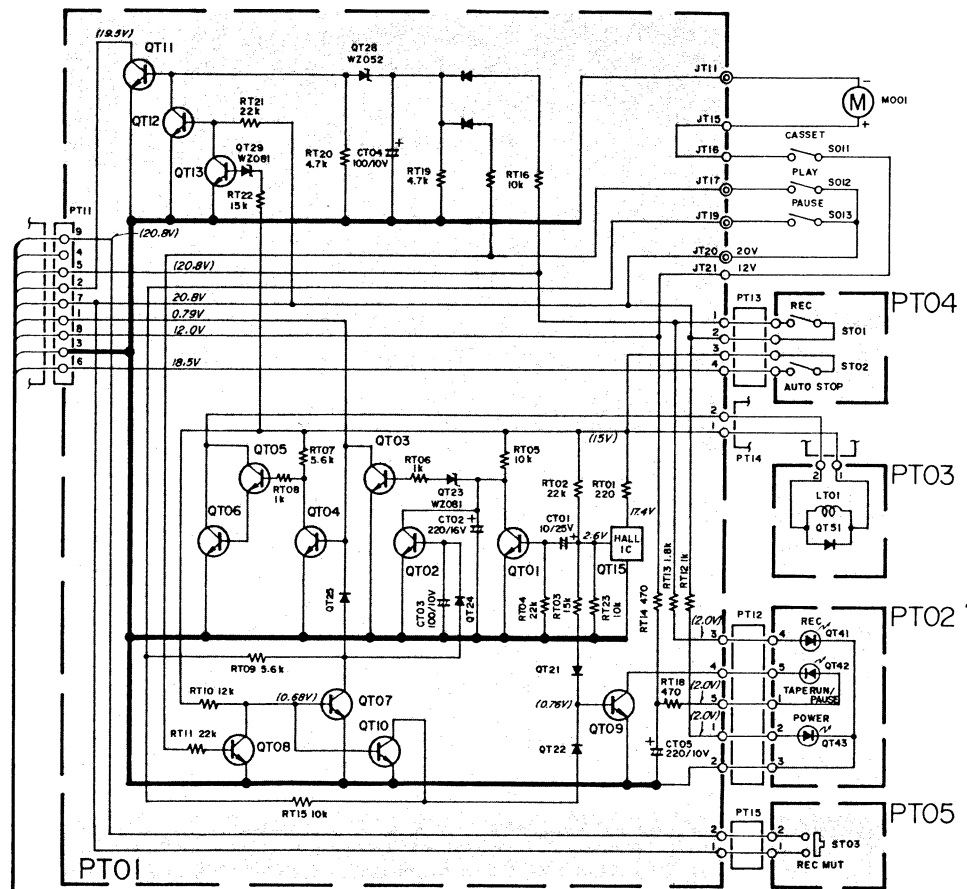
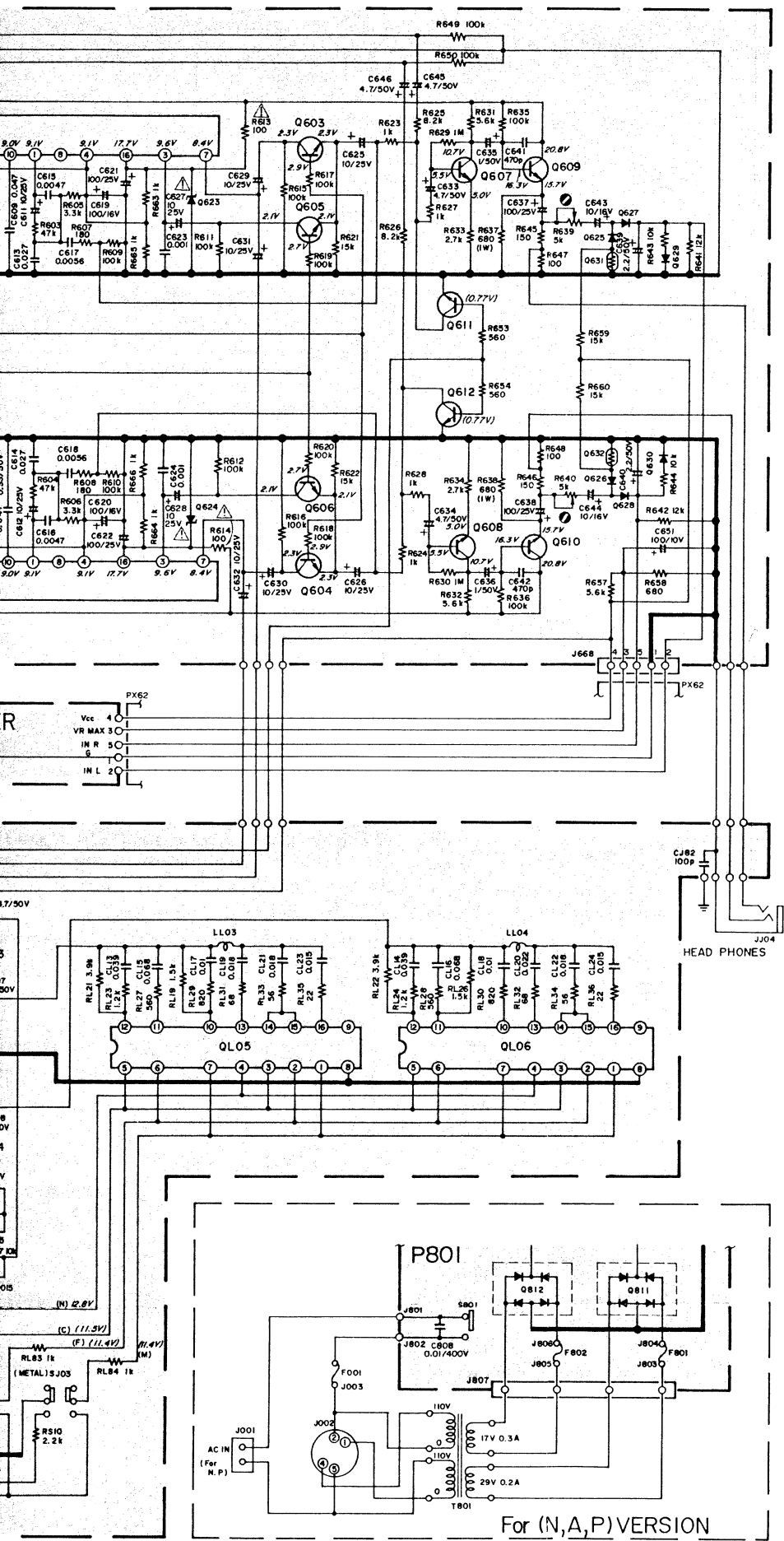
QT41
HI10007320
GL-9RP9

QT42
HI10005320
GL-9HY9

QT43
HI10006320
GL-9NG9

QX02
HI100015020
LN3176P

SD 5010



SWITCHES
 SJ01 : MIC/LINE (LINE)
 SJ02 : DOLBY MPX (OFF)
 SJ03 : TAPE SELECT METAL (OFF)
 SJ04 : TAPE SELECT FcR (OFF)
 SJ05 : TAPE SELECT CrO₂ (OFF)
 SJ06 : TAPE SELECT NORMAL (ON)